Pioneer

DVD PLAYER

DVD-V7400

Operating Instructions

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — Unplug this product from the wall outlet before cleaning. The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION – The appliance should be installed in a stable location.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
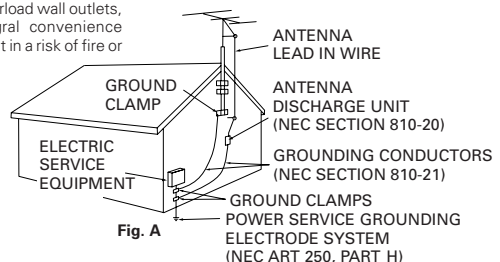
GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit product and cart combination to overturn. from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

REPLACEMENT PARTS — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

ANTENNA LEAD IN WIRE

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMP

ELECTRIC SERVICE EQUIPMENT

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

Fig. A

NEC — NATIONAL ELECTRICAL CODE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

> **The stand-by/ ON switch is secondary connected and therefore, does not separate the unit from mains power in standby position.**

CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION

• Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
• The use of optical instruments with this product will increase eye hazard.

IMPORTANT NOTICE

THE SERIAL NUMBER FOR THIS EQUIPMENT IS LOCATED IN THE REAR.
PLEASE WRITE THIS SERIAL NUMBER ON YOUR ENCLOSED WARRANTY CARD AND KEEP IN A SECURE AREA. THIS IS FOR YOUR SECURITY.

CAUTION
CONSULT WITH THE COMPANY SALES REPRESENTATIVE. "USE ONLY UL LIMITED AND CANADIAN CERTIFIED POWER SUPPLY CORD." AWG MINIMUM,
A POWER SUPPLY CORD TYPE SJT, 18 AWG MINIMUM, 3-WIRE GROUNDED TYPE SHALL BE USED WITH THIS EQUIPMENT.

[For Canadian model]

This Class B digital apparatus complies with Canadian ICES-003.

[Pour le modèle Canadien]

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

FEDERAL COMMUNICATIONS COMMISSION DECLARATION OF CONFORMITY

This device complies with part of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Product Name: DVD player
Model Number: DVD-V7400
Product Category: Class B Personal Computers & Peripherals
Responsible Party Name: PIONEER ELECTRONICS SERVICE, INC.
Address: 1925 E. DOMINGUEZ ST. LONG BEACH, CA 90810 U.S.A.
Phone/FAX Number: (310) 952-2359 / (310) 952-2412

Note to CATV system installer

This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable grounding system of the building, as close to the point of cable entry as practical.

This product is equipped with technology for the protection of copyrights protected by U.S. patent claims and other intellectual property rights possessed by the Macrovision Corporation and other rights holders. Special permission from Macrovision Corporation is required for the use of this copyright-protection technology, and that permission has been received for home use and certain other limited applications. Reverse engineering and disassembly of this technology are prohibited.
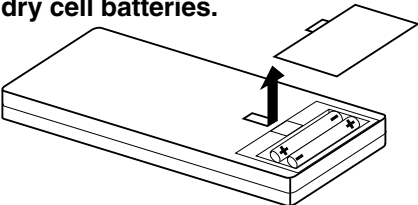
Before using

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

Check Accessories

Inserting batteries into the remote control

While pressing the back cover, pull out in the direction indicated by the arrow and insert AA size dry cell batteries.

Note
● Do not mix old and new batteries.
● Even batteries of the same type will differ in voltage.
   Do not mix different type of batteries together.
● When not using the remote control for a long period of time (over 1 month), remove the batteries to avoid possible damage from battery corrosion. If battery leakage occurs, wipe the battery liquid from the battery component, then insert new batteries.

● Make sure to match the plus (+) and minus (–) polarity guides in the batteries with the marks inside the battery compartment.

Component Features and Functions

1. **High-reliability, high-endurance player**

   This player features a high-performance brushless spindle motor, and the mechanical components have been sealed against heat and dust, giving this unit improved reliability.

2. **NTSC/PAL dual playback**

   DVD discs in either the NTSC format or the PAL format can be played back. (See page 79)

3. **Frame search function**

   When the frame search function is used, searching is possible in units smaller than when searching by chapter and time, and any point can be found. (See page 14) When frame segment playback is used, it is possible to play back from any point to any point in a video with still playback at the end. (See page 55, 56)

   ● The frame search function cannot be used with a multi PGC disc (time is not displayed on the TV screen) or with a Video CD, etc. Frame segment playback is possible with the DVD barcode, RS-232C control and a Barcode/Command stack.

4. **High-speed search**

   With a 1.3X reading speed and improved memory cache and search algorithm, the search speed has been increased. (See page 13, 14)

5. **Enhanced special playback**

   This player enables the DVD and Video CD playback speed to be changed in several ways. Slow forward and reverse playback, scan playback and frame forward/reverse can be freely selected. (See page 12, 14, 15)

   ● To perform reverse slow playback, select Frame from the REV STEP/REV PLAY page of the ADV.SETUP MENU. Slow playback is only possible in the forward direction with a Video CD.

6. **Mouse control**

   Instead of the remote control unit, a PS/2* pointing device can be used to control the player if desired. This allows selecting specific locations by the point-and-click method. (See page 43)

   * PS/2 is a registered trademark of IBM corporation.

7. **Weekly timer/ power on start function**

   The times for power on/off and for video playback of a disc can be set for each day within one week or within one day. Combined with the barcode/command stack, program playback is also possible. This player is limited to a maximum of 24 setting at one time.
   (See page 44, 52)

8. **Barcode/Command stack**

   This player, when segment commands and barcodes that control are input in advance, enables images to be switched and played back one after the other. This is very convenient when used in demonstrations, presentations, etc. Furthermore, the RS-232C connection allows uploading/downloading of the set content.
   (See page 53)

   ● Uploading/downloading can be easily performed when dedicated applications are being used.

9. **Interface with external signals**
   (RS-232C, external option switch)

   The device is fitted with an RS-232C connection so that commands can be given to support DVD, Video CD and CD. The control protocol is, for the most part, compatible with that of LD (Laser Disc) equipment, and LD signals can also be easily transferred.

   Other than the RS-232C interface connector, a terminal for the external option switch is provided. By simply connecting a switch to this terminal, operation is possible for DVD-VIDEO menu selection and barcode/command stack calls as well as operation of the remote control unit.

   ● Consult the User's Manual for detailed information regarding this terminal and RS-232C control commands. (See your dealer for more information about the User's manual.)

10. **Video blackboard function**

    Graphics and characters recorded in advance at desired positions on the DVD picture screen will appear during playback.

    This function enables demonstrations and presentations to be more effectively performed. (See page 71)

11. **Laser barcode compatibility**

    The laser barcode system previously used with LD (Laser Disc) players has been extended unchanged to DVD applications. Existing barcode scanners and barcode readers can be used. (See page 59)

12. **Video Text Retrieval**

    With this function, you can use the mouse to click on buttons shown on-screen during playback for display of indications of the text file corresponding to the selected button. This is possible only with Video Text Retrieval compatible discs. (See page 77)

13. **External Synchronizing Function**

    This terminal allows output of video signals linked to an external sync signal. (See page 77)

Contents

Basic Operations

Advanced Operations

Basic Operations

Settings

Advanced Operations

Connection/etc.

Precaution regarding use

Installation

- Install the player in a level and stable location.
  Do not use in shaky, unstable locations, or locations exposed to much vibration.
- Do not impair the player's cooling functions. Avoid placing on long-pile carpets, etc.. Also do not wrap or cover with towels or cloths when in use. Such coverings can impede the player's cooling function and result in internal damage.
- Do not place objects on top of the player.
- Install in a location which is not exposed to heat sources. Avoid installing the player above an amplifier or other heat-emitting component. If installing the player in a component rack, select a rack with good ventilation, located well below the amplifier.
- If the player is installed in a rack, care must be taken to avoid internal temperature buildup. Position it so that the ventilation openings in the top and bottom of the player are not obstructed.
  As a rule, install so that there is no heat from below and leave a gap of 10 cm or more at the left and right and above so that air can flow around the device by natural convection at a room temperature of 35°C (95°F) or less. If installation is necessary in any other circumstances, ensure that the air temperature at a point 5 cm above the center of the player in a sufficiently warmed up state is no higher than 35°C (95°F). When necessary, use forced air cooling.
- When multiple players are connected in parallel, a high surge current will be impressed on the units when external power is first turned on. Please consult your Pioneer dealer regarding ratings for the power switch to be used.
- Do not install the player in a closed rack. An internal temperature builds up and results in internal damage.

Operating Environment

Operating environment temperature and humidity:
+5°C - +35°C (+41°F - +95°F) ; less than 85% RH (cooling vents not blocked)

■ Do Not Install in the Following Locations:

- Locations exposed to direct sunlight or strong artificial light
- Locations exposed to dust or smoke
- Locations subject to vibration
- Locations subject to strong electro-magnetic fields.
- Near sources of heat.
- Locations exposed to high levels of electronic noise
- Locations subject to electrostatic noise
- Locations exposed to high humidity, or poorly ventilated locations
- A closed rack

Moving the Player

When transporting this player to a new location, be sure to use the packaging provided and avoid subjecting the player to vibration, shock, or dropping. During transport, protect the player from exposure to heat or water.
Before packaging the player, remove any disc loaded, since moving the player with a loaded discs may cause damage to the disc or player's internal parts.

Special Precautions!

Never attempt to move the player while a disc is playing. Discs rotate at very high speeds during play, and lifting or moving the player at such times could cause damage to the disc.
Also, subjecting the player to strong impact or vibration when a disc is loaded may cause damage to disc or player.
Be sure the player is stopped and no disc is loaded before moving the player. Also be sure that no disc is loaded when lifting the player.
This component is built using precision optical parts. Be sure to take care to control temperature and dust inside the room where this player is installed.

Copyright

- Unauthorized public preference, broadcasting, or copying is a violation of applicable laws.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Handling the discs

■ Handling
- Never play clacked, scratched or warped disc. This may damage the player or cause it to malfunction.
- Do not damage or dirty the signal surface of the disc.
- Do not affix paper and seals to the disc.
- Too much glue will cause a malfunction. Many rental discs, particularly, have labels affixed to them, and use the disc after confirming that there is no glue.

■ Stacking
- Store the discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Read the operating instructions included in discs.

■ Cleaning
- **Fingerprints or other dirt on the disc may affect sound and picture quality. To remove dirt or finger prints, wipe gently from the inside toward the outer edges. (Do not wipe in a circular direction.)**
- Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzine, or thinner, etc.
- To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.

■ Discs with special shapes
Discs with special shapes (heart shaped discs, hexagonal discs, etc.) cannot be played on this set.
Attempting to do so may damage the set. Do not use such discs.

Lens cleaning

The player's pickup lens should not become dirty in normal use but if for some reason it should malfunction due to soiling, contact your nearest PIONEER authorized service centre. Lens cleaners are commercially available but special care should be exercised in their use since some may cause damage to the lens.

Condensation

Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.
To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.
Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

Disc types compatible with this unit

- The marks shown below are found on disc labels or on disc jackets.
- This player can play all discs bearing the marks below without the read for an adaptor.
- This player can play discs recorded in either PAL or NTSC format. Use those discs which indicates "NTSC" or "PAL" on the jacket.

Types of playable discs and their marks	Diameter/Playable sides	
DVD VIDEO **DVD** VIDEO	DVD VIDEO	
	12 cm (5˝)/single sided	1 layer
		2 layer
	12 cm (5˝)/double sided	1 layer
		2 layer
	DVD VIDEO	
	8 cm (3˝)/single sided	1 layer
		2 layer
	8 cm (3˝)/double sided	1 layer
		2 layer
VIDEO CD **COMPACT disc DIGITAL VIDEO**	VIDEO CD 12 cm (5˝)/single sided	
	VIDEO CD single 8 cm (3˝)/single sided	
CD **COMPACT disc DIGITAL AUDIO**	CD 12 cm (5˝)/single sided	
	CD single 8 cm (3˝)/single sided	

- Discs indicates below cannot played on this player. DVD audio, DVD-ROM, CD-ROM, DVD with regional number (see page 86) other than 1 or ALL.
- Do not use an 8cm (3˝) adaptor.

■ DVD identification markings

The following markings are displayed on DVD discs and packaging to indicate the type of video or audio recorded on that disc and the functions that can be used:

Mark	Meaning
②))	The number of the audio
2	The number of the subtitle language
3	The number of angles
16 : 9 LB	The picture aspect ratios that can be selected
1 ALL	The region number where playback is possible This player can play back discs which include region number "1" and discs on which "ALL" is inscribed.

■ Disc operation methods

The DVD operation method depends on the intention of the disc creator, and there are some discs that prohibit specific operations. For this reason, depending on the disc, the operation method differs and specific operations may not be possible. If a specific operation has been prohibited on the disc, the "Disc prohibition" mark is displayed on the screen of the player. Furthermore, with a disc that is capable of interactive operation in the menu and during playback, some operations such as repeat and program may not be possible. In this case, the "Prohibition due to the player" mark is displayed on the screen.
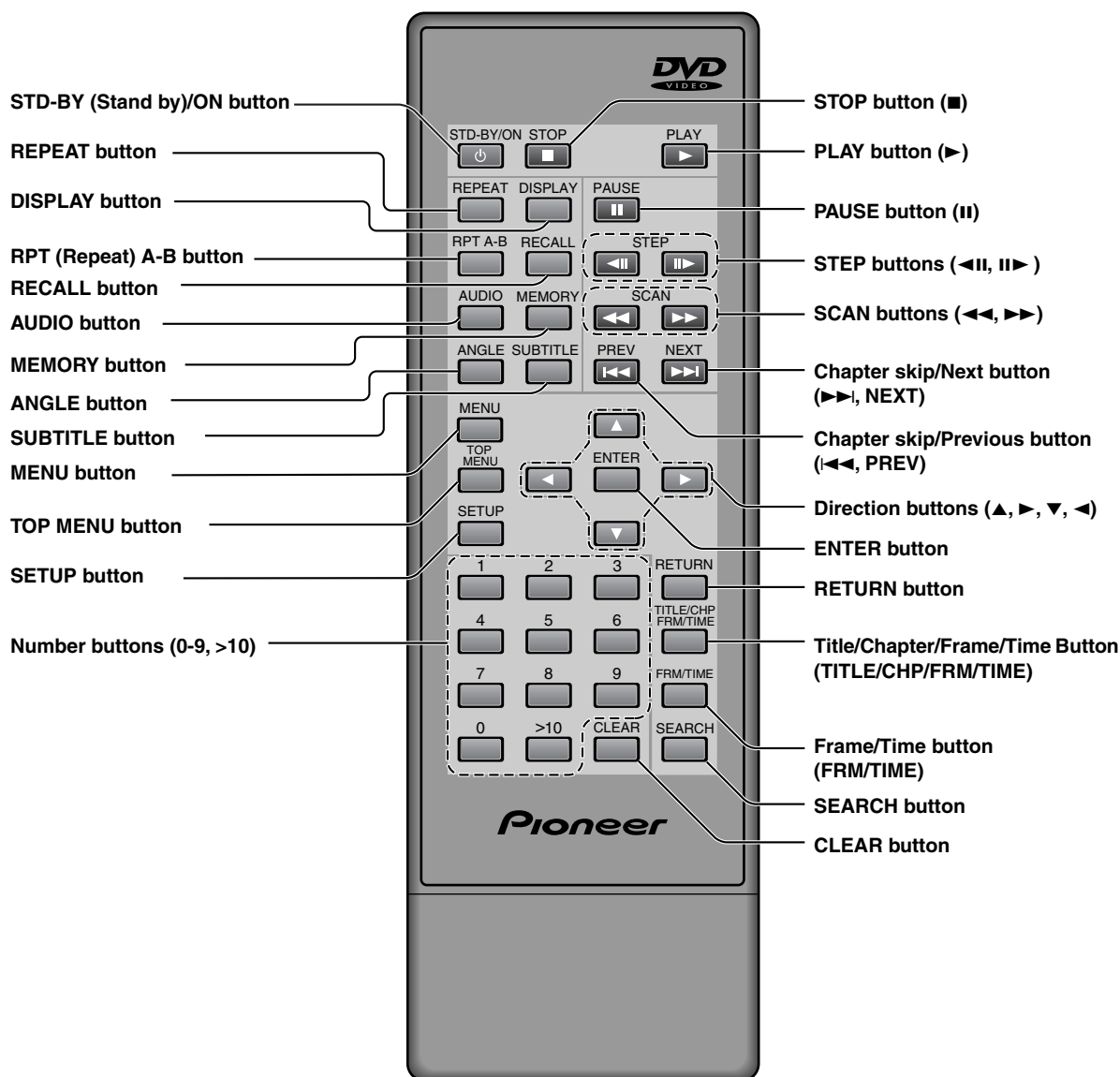
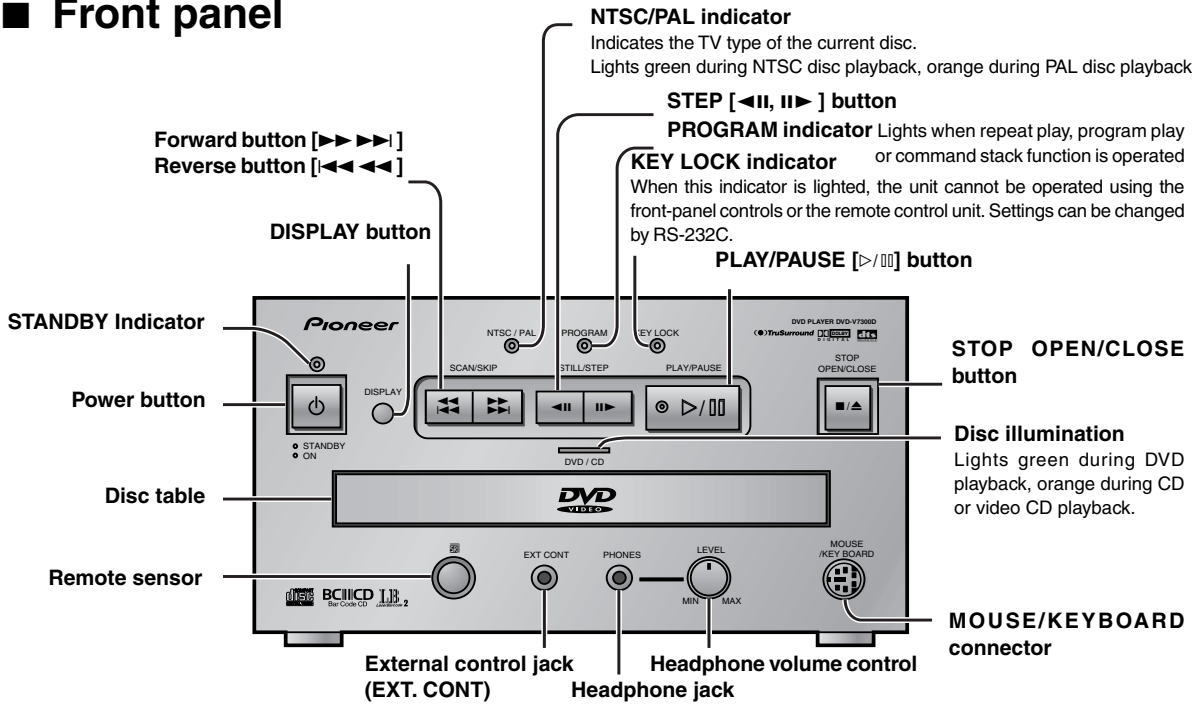Disc prohibition mark

Prohibition due to the player mark

Names and Functions
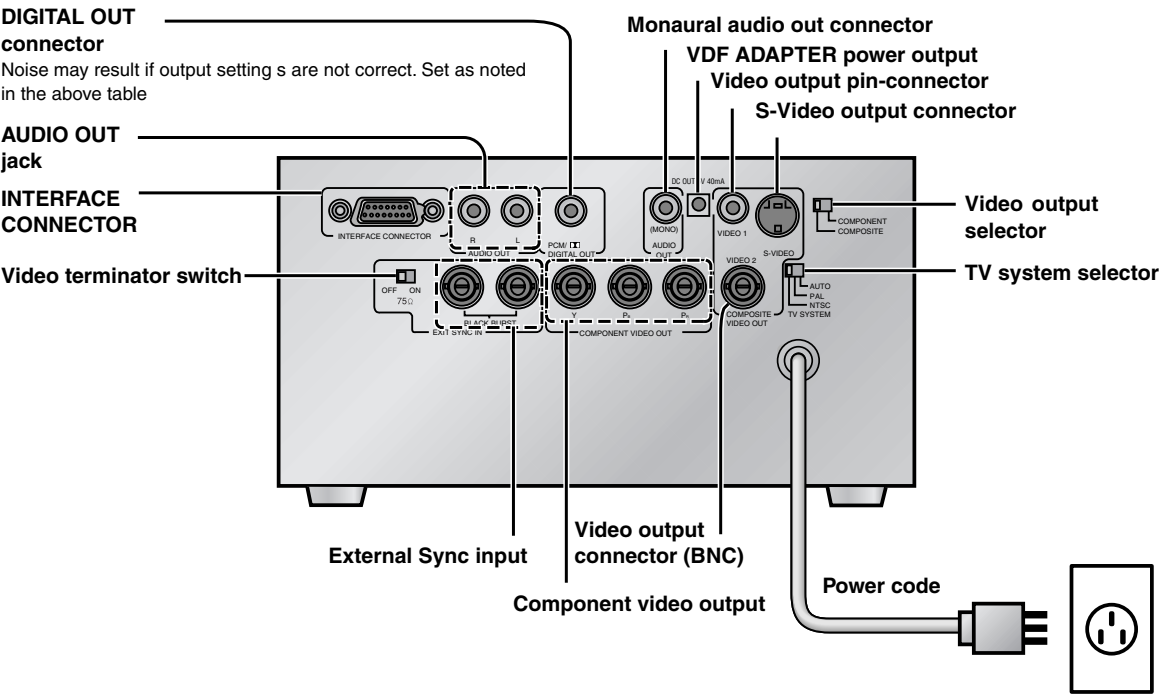
■ Remote control unit

STD-BY (Stand by)/ON button

REPEAT button

DISPLAY button

RPT (Repeat) A-B button

RECALL button

AUDIO button

MEMORY button

ANGLE button

SUBTITLE button

MENU button

TOP MENU button

SETUP button

Number buttons (0-9, >10)

STOP button (■)

PLAY button (►)

PAUSE button (II)

STEP buttons (◄II, II►)

SCAN buttons (◄◄, ►►)

Chapter skip/Next button (►►I, NEXT)

Chapter skip/Previous button (I◄◄, PREV)

Direction buttons (▲, ►, ▼, ◄)

ENTER button

RETURN button

Title/Chapter/Frame/Time Button (TITLE/CHP/FRM/TIME)

Frame/Time button (FRM/TIME)

SEARCH button

CLEAR button

STD-BY/ON STOP *PLAY*

REPEAT DISPLAY PAUSE

RPT A-B RECALL STEP

AUDIO MEMORY SCAN

ANGLE SUBTITLE PREV NEXT

MENU

TOP MENU ENTER

SETUP

1 2 3 RETURN

4 5 6 TITLE/CHP FRM/TIME

7 8 9 FRM/TIME

0 >10 CLEAR SEARCH

Pioneer

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* When using a wired remote control unit (sold separately: CU-V155), the reading of the names of some of the keys needs to be changed. Refer to the home page on backcover of this operation manual for details.

■ Front panel

NTSC/PAL indicator
Indicates the TV type of the current disc.
Lights green during NTSC disc playback, orange during PAL disc playback

STEP [◀II, II▶] button

PROGRAM indicator Lights when repeat play, program play or command stack function is operated

Forward button [▶▶ ▶▶I]
Reverse button [I◀◀ ◀◀]

KEY LOCK indicator
When this indicator is lighted, the unit cannot be operated using the front-panel controls or the remote control unit. Settings can be changed by RS-232C.

DISPLAY button

PLAY/PAUSE [▷/00] button

STANDBY Indicator

Power button

STOP OPEN/CLOSE button

Disc illumination
Lights green during DVD playback, orange during CD or video CD playback.

Disc table

Remote sensor

MOUSE/KEYBOARD connector

External control jack (EXT. CONT)

Headphone jack

Headphone volume control

■ Rear panel

Your amp	Settings
Regular AV amp	Select [Dolby Digital ► PCM] from the SETUP MENU. (See page 34)
Dolby Digital compatible amp	Select [Dolby Digital] from the SETUP MENU. (See page 34)

DIGITAL OUT connector
Noise may result if output setting s are not correct. Set as noted in the above table

Monaural audio out connector
VDF ADAPTER power output
Video output pin-connector
S-Video output connector

AUDIO OUT jack

INTERFACE CONNECTOR

Video terminator switch

Video output selector

TV system selector

External Sync input

Video output connector (BNC)

Component video output

Power code

Basic Operations

Remote Control Operations

Wireless Remote Operation

When operating the remote control, point it at the remote sensor located on the player's front panel. The remote control can be used up to 7 m (23 feet) from the player and within a 30° angle each side of the sensor.

● Exposing the remote sensor to direct sunlight or strong light may cause faulty operation.

30°
7m 30°
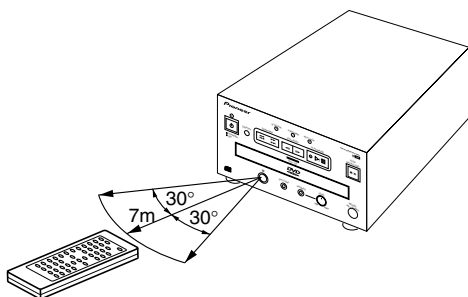
Wired Operation

Wired operation is possible with the separately sold remote control. Connect the remote control's supplied cord to the external control jack (EXT.CONT) on the player's front panel.
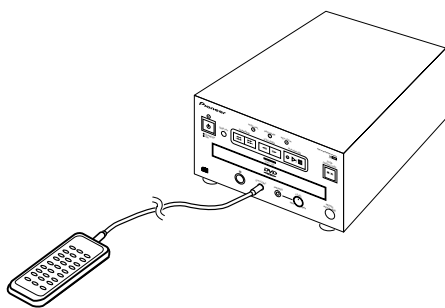
Playing DVDs, CDs, and Video CDs

DVD Video CD CD

1 Press STD-BY/ON.

● The player's standby indicator changes from orange (stand by) to green (power on).

2 Press STOP OPEN/CLOSE.

● The disc table comes out.

3 Load a disc

● Load a disc with the label side facing up, using the disc table guide to align the disc.
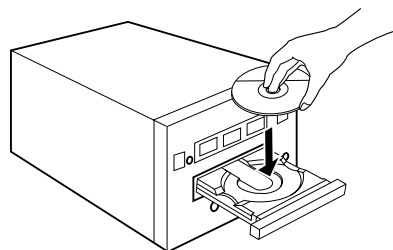
4 Press PLAY.

● The disc table will close and playback will begin.

● Press PLAY/PAUSE on the front of the player.

● Depending on the disc, a menu is displayed. If a menu is displayed, refer to the next page.

Note:
● DVD discs that do not have the matching region number that allows playback can not be played (refer to the "Terms" section on page 86). (This unit's region number is "1".)
● During operation, the following marks may appear on the TV screen.

: Appears when this player cannot perform the selected function.

: Appears when the disc cannot perform the selected function.

DVD **Video CD**

When the menu screen has been displayed

DVDs and Video CDs, depending on the disc, feature selection menus.

This player lets you choose a desired title and music by selecting from a menu.

■During DVD playback

Press ▲ ▼ ◄ ► to select the selected

item and press ENTER**.**

Example)

```
TITLE MENU
 1   POP
 2   JAZZ
 3   COUNTRY
 4   R&B
 5   CLASSICAL
```
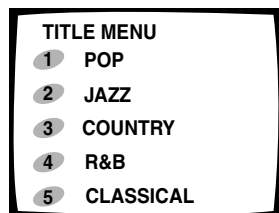
■During Video CD playback
Select with the number buttons.

● When the menu screen consists of two pages or more, press
PREV NEXT to turn the pages.
◄◄   ►►

Example)

```
 1   POP
 2   JAZZ
 3   COUNTRY
 4   R&B
 5   CLASSICAL
```
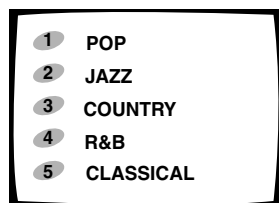
■Turning the menu screen display off/on

The way to display the menu screen differs depending on the disc, but menu screen is returned with DVD by pressing MENU
or TOP MENU during playback, and with Video CD, by pressing
RETURN during PBC playback.

● Regarding operations on the menu screen, see the operation method accompanying the disc.

DVD **Video CD**

Returning to menu display during playback

■During DVD playback

1 Press TOP MENU**.**

● Press MENU again for a menu of title contents.
● Operate according to disc menus.

■During Video CD playback

1 Press RETURN**.**

Pressing RETURN during PBC playback will display the menu.

Because the player's operation method and functions depend on the PBC, playback will differ according to the disc. For details, please refer to the disc's instruction manual.

Note

● When using a menu for Video CD playback; the repeat Play and Track/Time Search functions do not operate.
● Menu details differ depending on the disc. Play a disc by
making menu selections using ▲ ▼ ◄ ►, ENTER
and the number buttons.
● You can also play Video CDs without calling up a menu by
pressing PREV NEXT or a number button during STOP. For
◄◄   ►►
example, to start playback from track 1, press 1

Chapter (Track) skip forward/skip back

Skipping forward to the next chapter (track)

Press ▶▶| .
NEXT

● Press to skip forward to the next chapter (track).

● ⇥ on the front panel has the same function.

Skipping back to the previous chapter (track)

Press |◀◀ .
PREV

● Press once to skip back to the start of the chapter (track) currently playing.

● Press again to skip back to the start of the previous chapter (track).

● ⇤ on the front panel has the same function.

Fast forward

Press and hold ▶▶ .
SCAN

● Release ▶▶ when you reach the desired location. Normal playback resumes.
SCAN

● ⇥ on the front panel has the same function.

● When the "Scan" indicator on the screen changes from flashing to lit, fast forward will continue even if the button is released. When the desired location has been reached, press ▶▶ .
SCAN

Fast reverse

Press and hold ◀◀ .
SCAN

● Release ◀◀ when you reach the desired location. Normal playback resumes.
SCAN

● ⇤ on the front panel has the same function.

● When the "Scan" indicator on the screen changes from flashing to lit, fast rewind will continue even if the button is released. When the desired location has been reached, press ◀◀ .
SCAN

Stopping playback and switching power off

1 Press ■ .
STOP

● On the front panel, press ■▲ .
STOP
OPEN/CLOSE

● Playback stops.

2 Press ■▲ .
STOP
OPEN/CLOSE

● The disc table comes out.

3 Remove the disc.
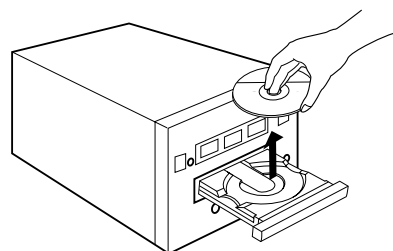
4 Press ⏻ .
STD-BY/ON

● The disc table goes back in, power switches OFF, and the STANDBY indicator changes from green to orange.

Searching for a desired scene (SEARCH)

`DVD`

Direct search with title numbers during playback

1 Press `TITLE/CHP FRM/TIME` **during playback.**

> Title : 1

2 **Selecting title numbers directly with the number buttons.**

> Title : 3

● When selecting title number 3, press `3`.

● When selecting the title number 10, press `1` → `0`.

3 Press `SEARCH` **.**

● Pressing `PLAY` is also available.

`DVD`

Direct search with the title numbers in the stop mode

If you press number buttons to select the title number in the stop mode, playback starts from beginning of the title you selected.

To select title number 3

Press `3` **.**

To select title number 10

Press `>10` → `1` → `0` **.**

`DVD` `Video CD` `CD`

Searching by chapter/track number.

■Using the TITLE/CHP/FRM/TIME button

1 Press `TITLE/CHP FRM/TIME` **.**

● DVD: Chapter numbers flash on screen when pressed twice.
Video CD/CD: Track numbers flash on screen when pressed once.

2 **Select chapter/track numbers directly with the number buttons.**

Example 1: To select chapter/track number 31

Press `3` → `1` **.**

Example 2: To select chapter/track number 117

Press `1` → `1` → `7` **.**

3 Press `SEARCH` **.**

● Playback of the selected chapter/track begins. SEARCH
● Pressing `NEXT` or `PLAY` is also available except `SEARCH` .

`DVD` `Video CD` `CD`

Chapter/Track direct search

If you press number buttons to select the chapter/track number during playback, playback starts from beginning of the chapter/track you selected.
Example 1: To select chapter/track number 3

Press `3` **.**

Example 2: To select chapter/track number 17.

Press `>10` → `1` → `7` **.**

Note

● If ⊘ appears when the numbers are entered, it is not possible to search.

Searching for a desired scene (SEARCH)

DVD **Video CD**

Searching by time/frame number (Time search/Frame search)

1 Press **[ ]** (FRM/TIME) to select the frame input mode or the time input mode.

● With Video CD, only time search is available.

| Frame : 0/219113 | → | Time : 0.00 |
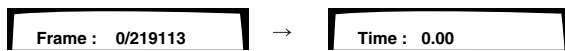
2 Select the desired time/frame number with the number buttons.

Example : To select 21 minutes 43 seconds

[2] → [1] → [4] → [3]

● With DVD, search cannot be performed for time/frame numbers which overlap titles.

3 Press **[ ]** (SEARCH).

● Pressing **[▶▶]** (NEXT) or **[▶]** (PLAY) is also available except **[ ]** (SEARCH).
● Playback starts from the selected elapsed play time.
● For frame searching, the still frame mode is set at the specified frame. (The accuracy in terms of frame may not be achieved exactly depending on the disc in use.)
Example)
Discs in which slide show is recorded
movie DVDs (24 frame).
● Time Search/Frame Search are not possible with discs that do not provide playback time indications within a title when you press **[ ]** (DISPLAY) (see page 19).

Point
● To cancel the Title, Chapter/Track/Time display that is flashing, press **[ ]** (CLEAR) twice.
● Using a menu to select is also possible for some titles. In this case, press **[ ]** (MENU) to display the menu screen and select while the display is being displayed .

Note
● With DVD, Time search may be impossible with certain titles. In this case, the 🚫 mark is displayed.
● When performing DVD or Video CD Time Search, playback may start from a slightly different time than that specified.
● On DVD discs, Time search is not possible during the stop mode.
● Search using the above operation is not possible during PBC playback of Video CDs.
● An error may occur when a frame search is conducted using several frames before or after the breaks in titles and chapters: this happens because of the way in which DVD are constructed.

Still frame/ Frame advance/ Frame reverse

DVD **Video CD**

Frame advance/Frame reverse (Playback the picture by 1 frame)

1 Press **[◀II]** (STEP) **[II▶]** (STEP).

[II▶] (STEP) : The picture will be advanced by one frame each time the button is pressed.

[◀II] (STEP) : The effect differs according to the following settings. (DVD only)

REV STEP/REV PLAY in ADV. SETUP (see page 42) is set to

Frame : The picture will be reversed by one frame each time the **[◀II]** (STEP) button is pressed.

VOBU*: The picture will be reversed in VOBU each time the **[◀II]** (STEP) button is pressed.

● The picture may not be advanced/reversed by 1 frame depending on such disc as movie DVD (24 frame) for example.
● If still images appear shaky when playing back DVD stop-motion frames, see page 25 and set the Still Picture to "Field". (Vertical resolution becomes half but eliminates burriness of the picture when in the picture.)
● If VOBU is selected, each time the **[◀II]** (STEP) is pressed, playback is reversed by 0.4 seconds to 1 second.

* VOBU = Video Object Unit:
In DVD-VIDEO, it is the smallest unit that forms a stream and, at the time of playback of 1 VOBU, is from 0.4 seconds to 1 second.

DVD **Video CD**

Still picture

1 Press **[II▶]** (STEP).

Note
● There is no sound when viewing still frames or when advancing one frame at a time.
● Pause may not be possible with certain discs. In this case, the 🚫 mark is displayed.
● When you press **[II]** (PAUSE), playback is paused and background color (for example, blue) appears on the TV screen.
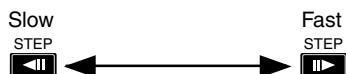
Slow motion Play

Forward slow playback

Press and hold ▐▐▶ during playback.

To change the speed of slow playback
During slow playback, slow playback speed can be adjusted

to any one of four speeds by pressing ◀▐▐ and ▐▐▶ .

Slow   Fast
STEP   STEP
◀▐▐ ◀━━━━━━━━━━━━━━━━▶ ▐▐▶

For DVD   STEP1 ($^1/_{30}$) − $^1/_{16}$ − $^1/_8$ − $^1/_4$ − $^1/_2$ − $^1/_1$
For Video CD $^1/_{16}$ − $^1/_8$ − $^1/_4$ − $^1/_2$
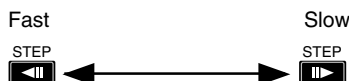   (units: seconds)

DVD

Reverse slow playback

Press and hold ◀▐▐ during playback.

To change the speed of slow playback
The action differs depending on the setting of the REV STEP/
REV PLAY item of the ADV SETUP menu (page 42).

Fast   Slow
STEP   STEP
◀▐▐ ◀━━━━━━━━━━━━━━━━▶ ▐▐▶

For frame: $^1/_1$ − $^1/_2$ − $^1/_4$ − $^1/_8$ − $^1/_{16}$ − STEP1 ($^1/_{30}$)
                                         (units: seconds)
For VOBU*: Reverse slow playback in VOBU units.

* VOBU = Video OBject Unit:
   In DVD-VIDEO, it is the smallest unit that forms a stream
   and, at the time of playback, is from 0.4 seconds to 1 sec-
   ond.

DVD **Video CD**

To return to normal playback

Press ▶ .

Note
● No sound will be heard during slow motion play.

Repeat Play

Repeat play of a chapter/track

1 **During playback of the chapter or track you wish to repeat, press ▭ so that Repeat Chapter is displayed.**
● With CDs and Video CDs, Repeat Track is displayed.

DVD **Video CD** **CD**

Repeat play of a title

1 **During playback of the title you wish to repeat, press ▭ so that Repeat Title is displayed.**
   ● With DVD discs, the title continues playing until the end, and then playback starts once more from the beginning of that title.
   ● With CDs and Video CDs, the disc is one title, therefore the entire disc is repeated.

DVD

Repeat play of all titles

1 **During playback, press ▭ so that Repeat All is displayed.**
   ● This operation is effective only when the menu's TITLE PLAY MODE is set to All (see page 41.)
   ● When playback has continued until the end of the final title, playback begins again from title 1.

DVD **Video CD** **CD**

Repeat play of a specified section

1 **Press ▭ at the beginning and end of the section you want to repeat.**

DVD **Video CD** **CD**

Return to a specified location

1 **Press ▭ at the desired location.**

- -

2 **To return, press ▶ .**
● Press ▭ to clear a specified location.

Tips
● To cancel Repeat Play, press ▭ the button. The Repeat play mode will be cancelled, but playback will continue normally.

Note
● With some DVD discs, there may be times when Repeat playback is not possible because of the title. In this case, the ⊘ mark will appear on the screen.

● With Video CDs, Repeat play is not possible during playback with the menu displayed (PBC playback). To perform Repeat play, start playback without displaying a menu (see page 11), and press ▭ .

● PROGRAM indicator on the main unit lights during repeat play.

Program Play

The contents of one disc can be arranged in the desired order. Programming is possible up to a maximum of 24 steps.
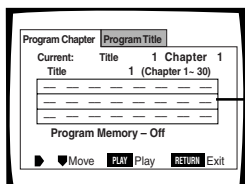
`DVD`

1 Press MEMORY three times.

PROGRAM is displayed on the television screen.

2 Press ENTER.

The program screen is displayed.

```
┌──────────────────────────────────┐
│ Program Chapter │ Program Title │
│                                  │
│ Current:   Title     1 Chapter 1 │
│ Title      1 (Chapter 1~ 30)     │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ ─── ─── ─── ─── ─── ─── ─── ───  │   ── Program input screen
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ Program Memory – Off             │
│ ▶  ♥Move  PLAY Play  RETURN Exit │
└──────────────────────────────────┘
```

3 With ▲ ▼ ◄ ►, select the mode.

Program Chapter:
  When programming with chapter units
Program Title:
  When programming with title units

4 With ▲ ▼ ◄ ►, the cursor (the place where the color is changed) is moved to the program input screen.

5 With the number buttons, the chapters and titles are designated in the desired playback sequence.

Example) To program titles or chapters in the sequence
9, 7, 18, press 9, 7, >10, 1, 8.

```
┌──────────────────────────────────┐
│ Program Chapter │ Program Title │
│                                  │
│ Current:   Title     1 Chapter 1 │
│ Title      1 (Chapter 1~ 30)     │
│ 09  07  18 ─── ─── ─── ─── ───   │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ Program Memory – Off             │
│ ◀  ▲♥Move  PLAY Play  RETURN Exit│
└──────────────────────────────────┘
```
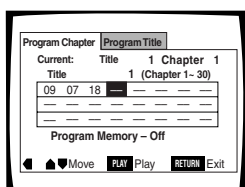
■ **To input chapters and titles during playback**
  Press ENTER.

6 With ▲ ▼ ◄ ►, move the cursor to the chapter or title where you want to start playback

7 Press PLAY ▶.

Playback starts in the programmed sequence.

● When RETURN is pressed, the programming ends without playing back.

Note

● If the current title number (upper side) on the display is different from the title number (lower side), inputting chapters using ENTER is not possible. In such cases, numeric buttons to input chapters.

● In case of DVD, program play is not possible depending on disc. In such cases, 🚫 or 🚫 mark will appear on the screen.

● programming chapter is possible when those chapters are in the same title only.

● When the chapter is being changed to the next chapter during program play, the display of the chapter which is not programmed appears on the TV screen. It is not malfunction.

`Video CD` `CD`

1 Press MEMORY three times.

PROGRAM is displayed on the television screen.

2 Press ENTER.

The program screen is displayed.

```
┌──────────────────────────────────┐
│ Program Track │                  │
│                                  │
│ Current: Track   1(/10)          │
│ Total Time       0.00            │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│ ─── ─── ─── ─── ─── ─── ─── ───  │
│      Move  PLAY Play  RETURN Exit│
└──────────────────────────────────┘
```
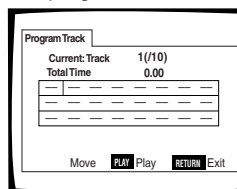
3 With the number buttons, the tracks are designated in the desired playback sequence.

Example) To program tracks in the sequence 9, 7, 18,
press 9, 7, >10, 1, 8.

4 With ▲ ▼ ◄ ►, move the cursor to the track where you want to start playback.

5 Press PLAY ▶.

Playback starts in the programmed sequence.

● When RETURN is pressed, the programming ends without playing back.

Note

● During Video CD PBC playback, program playback is not possible.

| DVD | Video CD | CD |

To stop program play

1 Press $\overset{\text{CLEAR}}{\boxed{}}$ during play.

Normal playback starts from the chapter/track currently playing.

Notes
- When the disc table is opened, the program will be completely erased. With DVD, a program that you want to save can be recorded in this player (page 18).
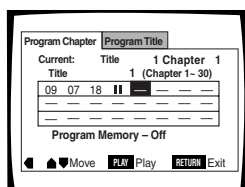- When $\overset{\text{CLEAR}}{\boxed{}}$ is pressed while stopped, the entire program is erased.

| DVD | Video CD | CD |

Programming a pause

1 Press $\overset{\text{PAUSE}}{\boxed{\text{II}}}$ in the program input screen.

"**II**" is displayed and a pause is programmed.

```
Program Chapter | Program Title
Current:    Title       1 Chapter  1
Title                   1 (Chapter 1~ 30)
09   07   18  II  —  —   —   —
—    —    —   —   —   —   —   —
—    —    —   —   —   —   —   —
Program Memory – Off
◄  ▲▼Move   PLAY Play   RETURN Exit
```

- When a pause is programmed, it pauses at the start of the title, chapter/track programmed next. To continue program playback, press $\overset{\text{PLAY}}{\boxed{\blacktriangleright}}$.

Notes
- It is not possible to program a pause at the beginning and at the end of a program.
- It is not possible to program a pause two or more times in a row.

| DVD | Video CD | CD |

Checking a program

1 Press $\overset{\text{MEMORY}}{\boxed{}}$ three times.

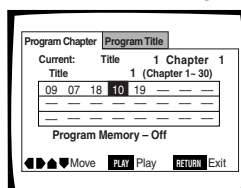"PROGRAM" is displayed on the TV screen.

2 Press $\overset{\text{ENTER}}{\boxed{}}$.

With a DVD, press ◄ ► again and select "Program Chapter" or "Program Title".

- To start program playback, press $\overset{\text{PLAY}}{\boxed{\blacktriangleright}}$. To end a program, press $\overset{\text{RETURN}}{\boxed{}}$.

| DVD | Video CD | CD |

Erasing the contents of a program one by one

1 With ▲ ▼ ◄ ►, designate the numbers that you want to erase.

```
Program Chapter | Program Title
Current:    Title       1 Chapter  1
Title                   1 (Chapter 1~ 30)
09   07   18  10  19  —  —   —
—    —    —   —   —   —   —   —
—    —    —   —   —   —   —   —
Program Memory – Off
◄▶▲▼Move   PLAY Play   RETURN Exit
```

2 Press $\overset{\text{CLEAR}}{\boxed{}}$.

The designated numbers are erased and the next numbers are moved forward one by one.

```
Program Chapter | Program Title
Current:    Title       1 Chapter  1
Title                   1 (Chapter 1~ 30)
09   07   18  19  —  —   —   —
—    —    —   —   —   —   —   —
—    —    —   —   —   —   —   —
Program Memory – Off
◄  ▲▼Move   PLAY Play   RETURN Exit
```
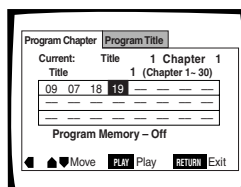
- To start program playback, press $\overset{\text{PLAY}}{\boxed{\blacktriangleright}}$. To end a program, press $\overset{\text{RETURN}}{\boxed{}}$.

| DVD | Video CD | CD |

Adding a program

1 With ▲ ▼ ◄ ►, designate the place where you want to insert.

```
Program Chapter | Program Title
Current:    Title       1 Chapter  1
Title                   1 (Chapter 1~ 30)
09   07   18  10  19  —  —   —
—    —    —   —   —   —   —   —
—    —    —   —   —   —   —   —
Program Memory – Off
◄▶▲▼Move   PLAY Play   RETURN Exit
```
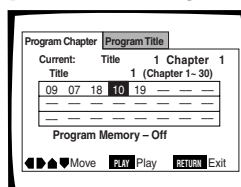
2 Press the number button.

The designated number moves back and a new number is inserted.
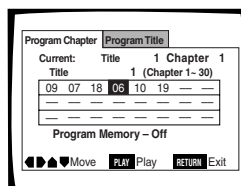
```
Program Chapter | Program Title
Current:    Title       1 Chapter  1
Title                   1 (Chapter 1~ 30)
09   07   18  06  10  19  —  —
—    —    —   —   —   —   —   —
—    —    —   —   —   —   —   —
Program Memory – Off
◄▶▲▼Move   PLAY Play   RETURN Exit
```

- To start program playback, move the cursor to the number where you want playback to start and press $\overset{\text{PLAY}}{\boxed{\blacktriangleright}}$. To end a program, press $\overset{\text{RETURN}}{\boxed{}}$.
- When all of the program (24 steps) has been input, add after erasing with $\overset{\text{CLEAR}}{\boxed{}}$.
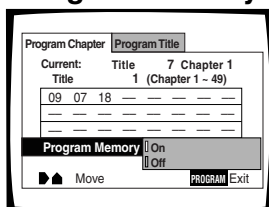
Program Play

DVD

Recording the program (program memory)

This player can record DVD programs up to a maximum of 24 discs, even if the disc is removed. When a program is recorded, program playback starts when the same disk is played back next. When the number of recorded discs exceed 24, the programs are automatically erased starting with the oldest discs.

1 With ▲ ▼ ◄ ►, select "ON" of "Program Memory" and press ENTER ▢.

Program Chapter	Program Title

Current: Title   7 Chapter 1
Title   1 (Chapter 1 ~ 49)

09 07 18 — — — — —
— — — — — — — —
— — — — — — — —

Program Memory ▌On
　　　　　　　　　▌Off

▶▲ Move   **PROGRAM** Exit

● To start program playback, move the cursor to the number where you want playback to start and press PLAY ▶. To end a program, press RETURN ▢.

DVD

Erasing the Program of the disc which is used

1 Press ▲ ▼ to select [Off] of [Program Memory] and press ENTER ▢.

● However, the numbers remain as they were on the program input screen, program of the disc is erased.

Viewing disc information

Viewing disc information while stopped

1 Press DISPLAY ▢ while stopped.

The disc information screen is displayed.

DVD

The titles and the number of chapters within the respective titles are displayed.

1/2 shows that there are two pages of information, and that this screen is the first of those pages.

Information: DVD			
Title	**Chapter**	**Title**	**Chapter**
01	1~ 1	06	1~ 1
02	1~ 1	07	1~ 1
03	1~ 1	08	1~ 1
04	1~ 1	09	1~ 4
05	1~ 1	10	1~ 1
	1/2 ▶		**DISPLAY** Exit

When there are two or more pages of disc information, the next screen is displayed when the cursor button ► (right direction) is pressed.

Video CD   **CD**

The tracks and the respective track times are displayed.

1/2 shows that there are two pages of information, and that this screen is the first of those pages.

Information: Compact Disc			
Total Time		**72.04**	
Track	**Time**	**Track**	**Time**
01	5.23	06	6.51
02	4.55	07	3.18
03	6.13	08	6.50
04	5.45	09	4.16
05	5.10	10	3.22
	1/2 ▶		**DISPLAY** Exit

When there are two or more pages of disc information, the next screen is displayed when the cursor button ► (right direction) is pressed.

To switch off the disc information

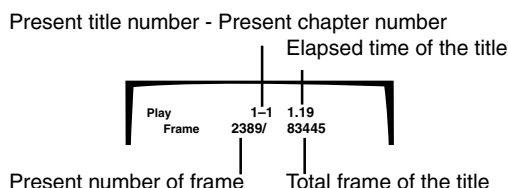Press DISPLAY ▢ again. The disc information screen disappears.

Viewing disc information during playback

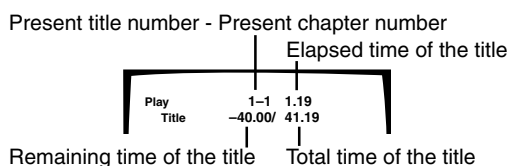### 1 Press DISPLAY repeatedly during playback.

When pressed, the following kind of disc information is displayed in the upper part of the screen.

DVD
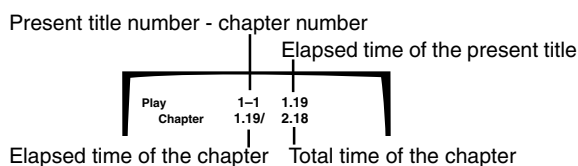
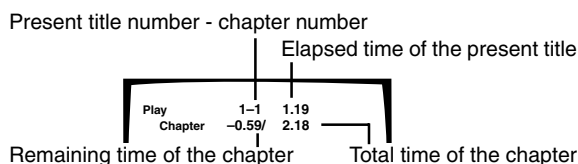When pressed **once**, the present frame information is displayed.

Present title number - Present chapter number

Elapsed time of the title

```
Play      1–1    1.19
Frame     2389/  83445
```

Present number of frame | Total frame of the title

When pressed **twice**, the present title information is displayed.

Present title number - Present chapter number

Elapsed time of the title

```
Play      1–1      1.19
Title     −40.00/  41.19
```

Remaining time of the title | Total time of the title

When pressed **three times**, the present chapter information is displayed.

Present title number - chapter number

Elapsed time of the present title

```
Play       1–1    1.19
Chapter    1.19/  2.18
```

Elapsed time of the chapter | Total time of the chapter

When pressed **four times**, the present chapter information is further displayed.

Present title number - chapter number

Elapsed time of the present title

```
Play       1–1     1.19
Chapter    −0.59/  2.18
```

Remaining time of the chapter | Total time of the chapter

When pressed **five times**, the transfer rate* level meter is displayed.

Present title number - present chapter number

Elapsed time of the present title

```
Play       1–1    1.19
Tr. Rate : ▮▮▮▮▮▮▮▮▮▮  8.9
```

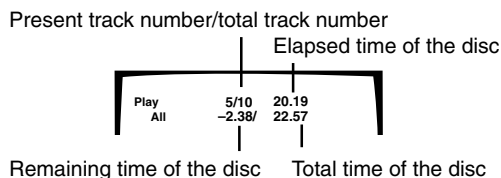Transfer rate level meter | Transfer rate level
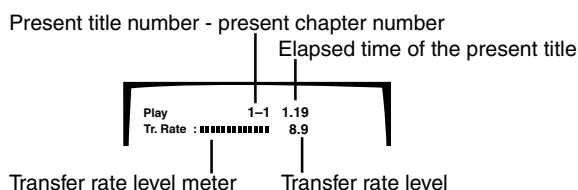
* It is the value that shows the amount of information of the picture recorded on the DVD. The higher the level of the transfer rate, the greater the amount of information, but the picture quality may not always be good.
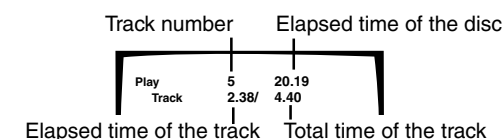
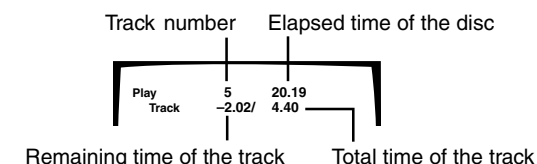When pressed **six times**, the display screen disappears.

Video CD

When pressed **once**, the present information of the video CD is displayed.

Present track number/total track number

Elapsed time of the disc

```
Play      5/10    20.19
All       −2.38/  22.57
```

Remaining time of the disc | Total time of the disc

When pressed **twice**, the present track information is displayed.

Track number | Elapsed time of the disc

```
Play      5      20.19
Track     2.38/  4.40
```

Elapsed time of the track | Total time of the track

When pressed **three times**, the present track information is further displayed.

Track number | Elapsed time of the disc

```
Play      5       20.19
Track     −2.02/  4.40
```

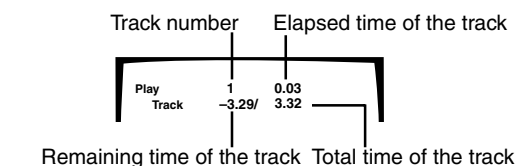Remaining time of the track | Total time of the track

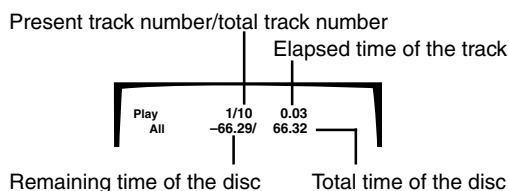When pressed **four times**, the display screen disappears.

● Disc information can't be viewed during PBC playback of a Video CD.

CD

When pressed **once**, the present track information is displayed.

Track number | Elapsed time of the track

```
Play      1       0.03
Track     −3.29/  3.32
```

Remaining time of the track | Total time of the track

When pressed **twice**, the present information of the CD is displayed.

Present track number/total track number

Elapsed time of the track

```
Play      1/10     0.03
All       −66.29/  66.32
```

Remaining time of the disc | Total time of the disc

When pressed **three times**, the display screen disappears.

Basic Operations

# Switching the Angle of the Image (Multi-Angle)

DVD

With DVDs featuring recordings of pictures shot from different angles, you can choose any desired viewing angle during playback. The 📹 mark is placed on the jacket of a DVD that has multiple angles.

1 **If the ⌲ mark is displayed during playback, press** ANGLE **.**

2 **Press** ANGLE **again to select the desired angle.**

The angle changes each time ANGLE is pressed.
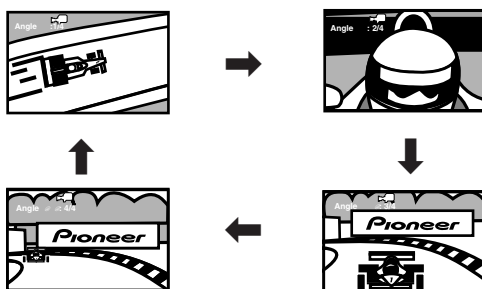
Note

- ⌲ is displayed on the screen when you come to a place where multiple angles have been recorded.
- When the angle is switched during a pause, the pause is cleared.
- In some DVDs the angle can be switched also in the disc menu screen.
- When you do not want ⌲ to be displayed, set the [Angle Indicator] to off in the initial setup menu (page 26).

Switching the Subtitles during Playback

DVD

When a DVD with subtitles that have been recorded in multiple languages is being played back, the subtitles displayed can be changed.

1 **Press** SUBTITLE **during playback of the DVD.**

The currently selected subtitles are displayed.

2 **Press the** SUBTITLE **button again.**

The subtitle display changes each time SUBTITLE is pressed.

Note

- To cancel the subtitles, press CLEAR after pressing SUBTITLE , or press SUBTITLE and select [OFF].
- In some DVDs subtitle can be switched also in the disc menu screen. In that case, press MENU and select after the menu is displayed. (page 11)
- The subtitle language here is temporary. When playback has been stopped, it returns to the subtitle language selected by [Subtitle Language] (page 27) of the initial setup menu.

Switching the Audio during Playback

DVD

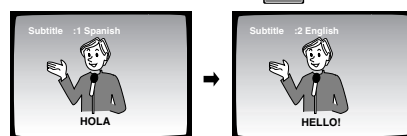**When a DVD with audio that has been recorded in multiple languages is being played back, the audio played back can be changed.**

1 Press AUDIO while playing back the DVD.

The currently selected audio is displayed.

2 Press AUDIO again.

The audio changes each time AUDIO is pressed.
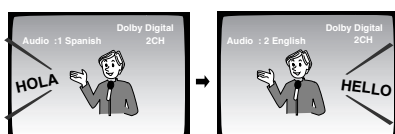
Note

- Switching the audio of the DVD may also be performed in the menu screen. In that case, press MENU and select after the menu is displayed. (page 11)
- The audio language switched here is temporary. When playback has been stopped, it returns to the audio language selected by [Audio Language] (page 27) of the initial setup menu.
- The picture may momentarily stop when the audio changes depending on the disc.

Switching the stereo/ left/right Audio

Video CD | CD

The type of audio of Video CDs and CDs can be switched.

1 Press AUDIO during playback of a Video CD or CD.

Each time the button is pressed, the audio changes to stereo, 1/L (left) and 2/R (right).
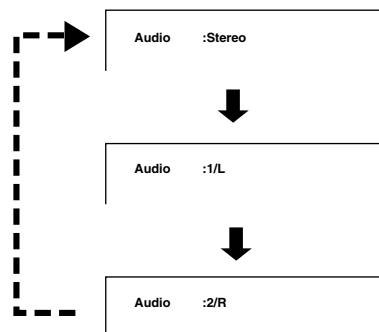
Note

- With Karaoke, etc., perform the above-mentioned operation and set to the type of audio written on the disc jacket, etc. to make the audio the accompaniment only.

Basic Operations

Index of the Graphical User Interface (GUI)

On this player, various settings can be selected while watching menu screens.
Here we will explain how to access menu screens. Because menu screen access differs according to the type of disc being used, or the playback mode (stop mode etc.), refer to the following menu map when accessing.

Audio1 2 Video Language General

Dolby Digital Out	▌ Dolby Digital	**page 34**
	Dolby Digital ▶ PCM	
DTS Out	▌ Off	**page 34**
	DTS	
96kHz PCM Out	▌ 96kHz ▶ 48kHz	**page 35**
	96kHz	
MPEG Out	MPEG	**page 35**
	▌ MPEG ▶ PCM	
Digital Out	▌ On	**page 36**
	Off	

1 **Audio2** Video Language General

Virtual Surround	▌ Off	**page 36**
	VDD/Tru Surround	
Audio DRC	Large	**page 37**
	Medium	
	Small	
	▌ Off	

Audio1 2 **Video** Language General

TV Screen	4:3 (Letter Box)	**page 23**
	4:3 (Pan & Scan)	
	▌ 16:9 (Wide)	
Still Picture	Field	**page 25**
	▌ Frame	
	Auto	
On Screen Display	▌ On	**page 25**
	Off	
OSD Position	Wide	**page 26**
	▌ Normal	
Angle Indicator	▌ On	**page 26**
	Off	

Audio1 2 Video **Language** General

Audio Language	▌ English	**page 27**
	Other	
Subtitle Language	▌ English	**page 27**
	Other	
Auto Language	▌ On	**page 28**
	Off	
DVD Language	▌ w/ Subtitle Language	**page 29**
	English	
	Other	
Subtitle Display	▌ On	**page 29**
	Off	
	Assist Subtitle	
Subtitle Off	With Audio	**page 30**
	▌ Selected Subtitle	

Audio1 2 Video Language **General**

Parental Lock	Level Change	**page 31**
	Password Change	
Screen Saver	▌ Off	**page 33**
	Black	
	Background Color	
Background Color	▌	**page 33**

▌ indicates the setting when shipped

Operating the Initial Setup Menu

`DVD` `Video CD` `CD`

The initial setup menu enables various settings to be made. The basic operating method for the initial setup menu and the locations of the buttons used are explained next.
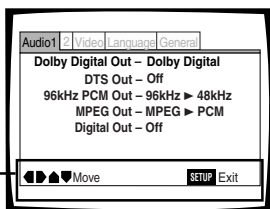
■ Displaying the initial setup menu

1 **Press** STD-BY/ON ⏻ **.**

When the power has been turned on, proceed to **2**.

2 **Press** SETUP **.**

The initial setup menu is displayed.

Example)

Audio1 2 Video Language General

Dolby Digital Out – Dolby Digital
DTS Out – Off
96kHz PCM Out – 96kHz ► 48kHz
MPEG Out – MPEG ► PCM
Digital Out – Off

◀▶▲▼Move   SETUP Exit

The buttons that can be operated from the screen.

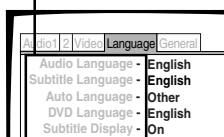## ■ Settings that work immediately after changing, depending on the type of disc

Depending on the type of disc, whether DVD, Video CD or CD, some settings work immediately after changing. This player provides confirmation by the color of the indicator to the left of the selected setting. See the following table.

Color of the indicator	Type of disc
Blue	DVD only
Yellow	DVD/Video CD only
Green	Not affected by the type of disc

■ Settings that cannot be changed during playback

Those settings that cannot be changed during playback are displayed in gray.

Gray

Audio1 2 Video Language General

Audio Language - English
Subtitle Language - English
Auto Language - Other
DVD Language - English
Subtitle Display - On

Selecting the aspect ratio

`DVD`

Set the aspect ratio to match the television connected to this player. This setting is unnecessary when connected to a wide-screen television.

Most DVD movies support a wide-screen television and the screen size ratio (usually called the aspect ratio) is set to 16:9 (horizontal:vertical). Consequently, if a DVD is viewed on a television of the conventional size, the 4:3 aspect ratio has the effect of increasing the height of the image. Set the aspect ratio to 4:3 when viewing on a television of the conventional size to eliminate this distortion. This setting cannot be changed during playback.

1 **Press** SETUP **.**

The initial setup menu is displayed.

2 **Select [Video].**

3 **Select [TV Screen].**

4 **Press the cursor button** ▶ **(right direction).**

5 **Select the preferred item.**

6 **Press** ENTER **.**

Audio1 2 Video Language General

TV Screen   4:3(Letter Box)
Still Picture - 4:3(Pan&Scan)
On Screen Display - 16:9(Wide)
OSD Position - Normal
Angle Indicator - On

◀▶▲▼Move   SETUP Exit
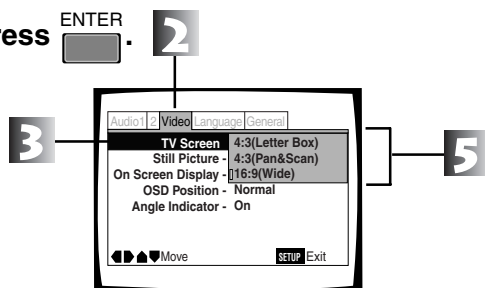
4:3 (Letter Box):
Select when a television of the conventional size is connected and you want to view in the letter box format (see the next page).
4:3 (Pan & Scan):
Select when a television of the conventional size is connected and you want to view in the pan & scan format (see the next page).
16:9 (Wide):
Select when a wide-screen television (16:9) is connected (Setting when shipped).

7 **Press** SETUP **.**

● If a 16:9 disc with 96 kHz PCM sound is converted to letter box format and played back, the sampling frequency of the sound will be downgraded to 48 kHz. To enjoy the sound at 96 kHz, set the screen aspect ratio to wide-screen.
● Whether the aspect can be changed or not depends on the disc. Check the disc jacket, etc. for details

Settings

Selecting the aspect ratio

The images which appear in the TV

Regular TV (4:3)

Image recorded on DVD	Settings of this player	Way to view the image	
16:9 discs	**4:3 (Letter Box)**		**There are bands at the top and bottom,but it can be properly viewed**
	4:3 (Pan & Scan)		**The left and right sides of the screen are cut off, but it can be properly viewed** When you don't want to view the picture in this way, switch the setting of this player to [4:3 (Letter Box)].
	16:9 (Wide)		**Appears to be lengthened vertically** When the picture appears in this way, switch the settings of this player to [4:3 (Letter Box)] or [4:3 (Pan & Scan)].
4:3 discs	**4:3 (Letter Box) 4:3 (Pan & Scan) 16:9(Wide)**		**It can be viewed properly**

Wide TV (16:9)

Image recorded on DVD	Settings of this player	Way to view the image	
16:9 discs	**16:9 (Wide)**		**It can be viewed properly** There are bands at the top and bottom depending on the disc.
4:3 discs	**16:9 (Wide)**		**There are bands at the right and left, but it can be properly viewed**
			Appears to be lengthened horizontally When the picture appears in this way, adjust the setting of TV to normal. Refer to the operating instruction of TV for details.

NOTE
When following operation is operated during playback in the letter box or Pan & Scan modes, the screen size is forcibly changed to the wide-screen mode

- When setup menu is displayed.
- When ADV.SETUP menu is displayed.
- When player control panel is displayed.
- When command stack is displayed.
- When video blackboard is displayed.
- When program is displayed.
- When video text is displayed.

Changing visual setting

Switching still pictures

Eliminating the burriness of a picture when the DVD has paused, and viewing the picture clearly is possible.

1 **Press** _{SETUP} **.**

The initial setup menu is displayed.

2 **Select [Video].**

3 **Select [Still Picture].**

4 **Press the cursor button** ▶ **(right direction).**

5 **Select the prefered item.**

6 **Press** ENTER **.** **2**

```
Audio1 2 Video Language General
    TV Screen    16:9(Wide)
  Still Picture -  Field
On Screen Display - Frame
  OSD Position -  Auto
 Angle Indicator -  On

◀▶▲▼Move              SETUP Exit
```
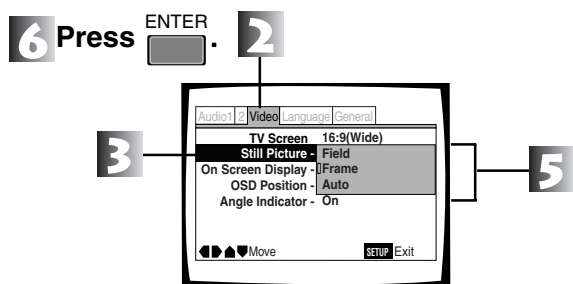
Field: Eliminates the burriness of the picture when in the still picture state.

Frame: Normal mode. (Setting when shipped)
● Scenes that the picture moves dynamic, jittering occurs in the still picture.

Auto: Field and Frame automatically switch.

7 **Press** _{SETUP} **.**

Note
● Depending on the disc, there are times when the picture quality may not become clear, even if "Field" is selected.

DVD Video CD CD

Switching the screen display on/off

The setting can be changed when you don't want to have the display when this player is operated such as "Play" and "Stop" displayed in the television screen.

1 **Press** _{SETUP} **.**

The initial setup menu is displayed.

2 **Select [Video].**

3 **Select [On Screen Display].**

4 **Press the cursor button** ▶ **(right direction).**

5 **Select the preferred item.**

6 **Press** ENTER **.** **2**

```
Audio1 2 Video Language General
    TV Screen    16:9(Wide)
  Still Picture -  Field
On Screen Display - On
  OSD Position -  Off
 Angle Indicator -  On

◀▶▲▼Move              SETUP Exit
```
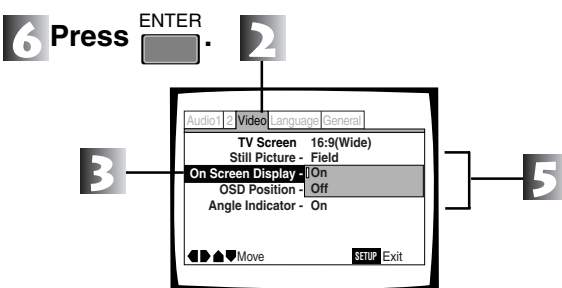
On: Displays screen. (Setting when shipped)
Off: Does not display screen.

7 **Press** _{SETUP} **.**

Settings

25
En

Changing visual settings

Selecting the position of the OSD

The OSD position of the initial startup screen such as "Play" or "Stop", etc. which this player displays can be set to suit the type of television. Set the screen ratio of the DVD disc to 4:3. (for details check the disc jacket, etc.)

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Video].

3 Select [OSD Position].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.

2

Audio1 | 2 | Video | Language | General

TV Screen   **16:9(Wide)**
Still Picture -   **Field**
On Screen Display -   **On**
OSD Position -   **Wide**
Angle Indicator - ‖**Normal**

◀▶▲▼ Move   SETUP Exit

3   5
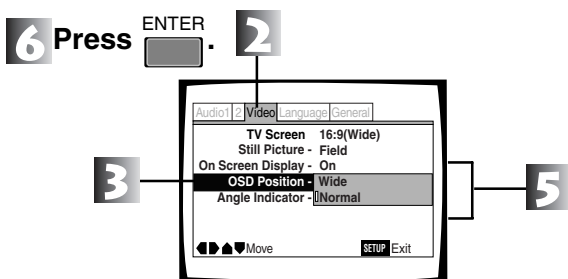
Wide: This setting avoids cutting off part of the OSD when zoom has been selected with the wide-screen television setting.
Normal: Select this when normal or full have been selected with the wide-screen television setting (Setting when shipped).

7 Press SETUP.

Turning the ⊄ mark on/off

Change the setting when you don't want to display the ⊄ mark that is displayed on the screen during playback.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Video].

3 Select [Angle Indicator].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.

2

Audio1 | 2 | Video | Language | General

TV Screen   **16:9(Wide)**
Still Picture -   **Field**
On Screen Display -   **On**
OSD Position -   **Wide**
Angle Indicator - ‖**On**
             Off

◀▶▲▼ Move   SETUP Exit

3   5
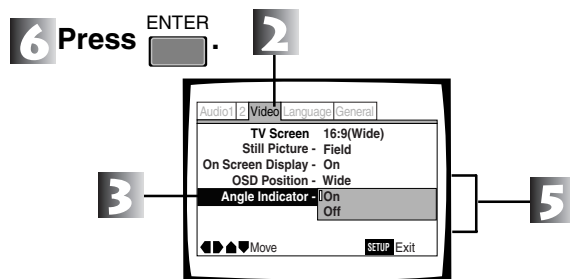
On: Display the ⊄ mark on the screen. (Setting when shipped)

Off: Does not display the ⊄ mark on the screen.

7 Press SETUP.

Setting the Language

Some DVD disks have multiple subtitles and audio tracks and have a function that enables the user to select the one he/she wants to suit his/her needs. The settings related to the various languages and subtitles in (Language) of the initial setup screen are explained here.

Setting the audio language

Select the audio language.
This setting cannot be changed during playback.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Language].

3 Select [Audio Language].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.

```
Audio1 2 Video Language General
Audio Language - English
Subtitle Language - Other
Auto Language - On
DVD Language - English
Subtitle Display - On
Subtitle Off - Selected Subtitle
◀▶▲▼Move          SETUP Exit
```

English: The audio language is English. (Setting when shipped).

Other: Select the desired audio from among 136 languages. See "When [Other] is selected by the subtitle language/ audio language/ DVD language setting" on the next page for details.

7 Press SETUP.

DVD

Setting a subtitle language

Select the subtitle language displayed.
This setting cannot be changed during playback.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Language].

3 Select [Subtitle Language].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.

```
Audio1 2 Video Language General
Audio Language - English
Subtitle Language - English
Auto Language - Other
DVD Language - English
Subtitle Display - On
Subtitle Off - Selected Subtitle
◀▶▲▼Move          SETUP Exit
```

English: Displays English language subtitles. (Setting when shipped)

Other: Select the desired subtitle from among 136 languages. For details, see "When [Other] is selected by the subtitle language/ audio language/ DVD language setting" on the next page.

7 Press SETUP.

Settings

Setting the Language

■ When (Other) is selected by the subtitle language/ audio language/ DVD language setting

Operate while viewing the language code table on page 38.

1 Select [Other].

2 Press ENTER.

The language setting screen is displayed.

Example) Audio Language is displayed

```
Audio1 2 Video Language General
  Audio Language
  List of Languages    Code (0~2)
         ▲
  ja: Japanese          1  0  0  1
         ▼

  ▶Move                 RETURN Return
  ▲▼+/−      ENTER Select SETUP Exit
```
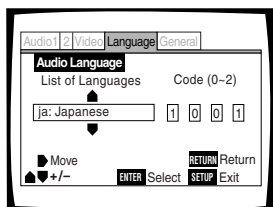
3 Select [List of Languages] or [Code].

■ **Selecting the language with the "List of Languages"**
(When selecting "French")

Press ▲ twice.

■ **Selecting a language with the "Code"**
(When selecting "French")

Press the remote control number buttons 0 6 1 8

● The numbers can also be selected by pressing ▲ ▼ for each digit.

Pressing the ◀ ▶ shifts the digit.

● The numbers in the ( ) of the code show the range of the numbers that can be set.

4 Press ENTER.

DVD

Automatically setting the audio and subtitles

You can select whether the audio and subtitles are selected automatically or by the initial startup setting.
This setting cannot be changed during playback.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Language].

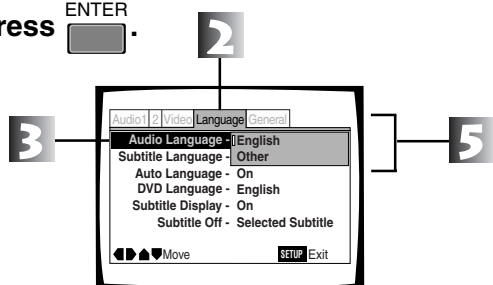### 3 Select [Auto Language].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.

```
Audio1 2 Video Language General
  Audio Language -   English
  Subtitle Language -  English
  Auto Language -    On
  DVD Language -     Off
  Subtitle Display -   On
  Subtitle Off -      Selected Subtitle

  ◀▶▲▼Move              SETUP Exit
```
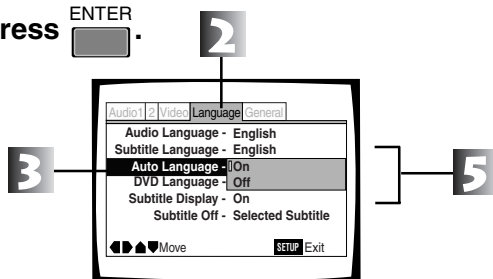
On: This is effective when the audio language and the subtitle language are the same and when the subtitle display is On. With a foreign movie DVD, the original language is selected for the audio and the language selected in the [Subtitle Language] menu option is selected for the subtitles ; with a domestic movie DVD, the original language is selected for the audio and the subtitles are off; (Setting when shipped).

Off: Automatic setting of the audio during playback is cancelled, and the audio and subtitle language is set as already set by [Audio Language] and [Subtitle Language].

7 Press SETUP.

Setting the DVD menu language

Some DVDs have a menu. Select the language from this menu. This setting cannot be set during playback.

1 Press SETUP.

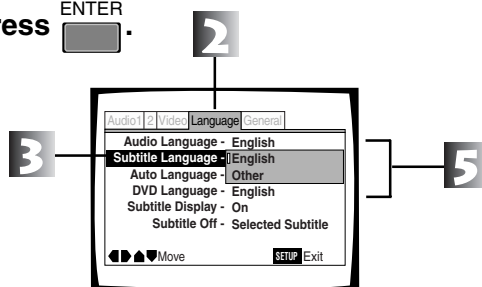The initial setup menu is displayed.

2 Select [Language].

3 Select [DVD Language].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.
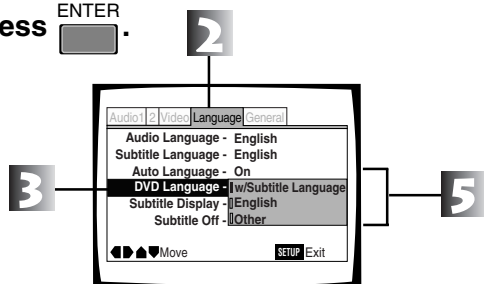
w/Subtitle
Language: Menu screen is displayed with the language selected by the subtitle language. (Setting when shipped)

English: The menu screen is displayed in English.

Other: Select the desired language from among 136 languages. For details, see "When [Other] is selected by the subtitle language/ audio language/DVD language setting" on page 28.

7 Press SETUP.

Note
When a language that is not recorded on the DVD has been set, the menu screen is displayed with one of the languages recorded.

DVD

Turning the subtitle display on/off

Select whether subtitles are to be displayed or not, or whether "Assist Subtitle" is to be displayed. This setting cannot be changed during playback.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Language].

3 Select [Subtitle Display].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.
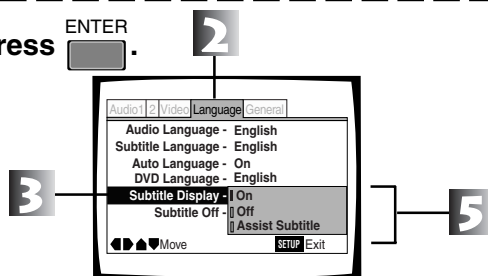
On: The subtitles are displayed (Setting when shipped).

Off: The subtitles are not displayed. However, some DVDs enforce the display of subtitles (See the next page).

Assist subtitle: An assist subtitle is one which, for example, helps to explain a scene for persons who are hearing impaired. The assist subtitles are displayed when this setting is selected, but only if they have been recorded on the disc.

7 Press SETUP.

Settings

Setting the Language

DVD

Setting the language of the subtitles with enforced display

Some DVDs enforce the display of subtitles even when subtitle display "Off" has been selected. However, the language of the subtitles can still be selected in the normal way.
This setting cannot be changed during playback.

1 Press ☐ SETUP.

The initial setup menu is displayed.

2 Select [Language].

3 Select [Subtitle Off].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ☐ ENTER. **2**

```
Audio1 2  Video  Language  General
    Audio Language -  English
 Subtitle Language -  English
     Auto Language -  On
      DVD Language -  English
   Subtitle Display -  On
       Subtitle Off -  With Audio
                       Selected Subtitle
◀▶▲▼ Move                  SETUP  Exit
```

3   **5**
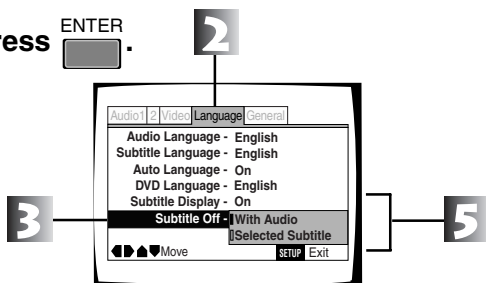
With Audio: Subtitles are displayed in the language of the audio that is being played back.
Selected Subtitle: Subtitles are displayed in the language selected by "Subtitle Language" on the initial setup menu
                    (Setting when shipped).

7 Press ☐ SETUP.

Setting viewing and listening restrictions (Parental Lock)

Some DVDs that contain violent scenes incorporate viewing restriction levels (great and small). This information is displayed on the disc jacket. If the level of this player has been set to a level lower than the level of a disc, (it is not possible to view and listen to that disc). For example, if the level of this player has been set to 6, a special code number has to be input before discs of levels 7 and 8 can be played back.

DVD

Setting the restriction level

The level of the viewing and listening restrictions and the special code number are set manually.

1 Press ^{SETUP}.

The initial setup menu is displayed.

2 Select [General] with ◀ ▶.

```
Audio1 2 Video Language General
  Parental Lock -    Level Change
  Screen Saver -     Password Change
  Background Color -  Blue

  ◀▶▲ Move              SETUP Exit
```
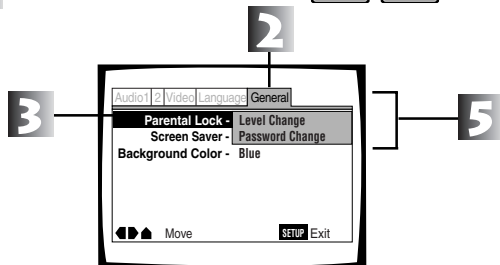
3 Select [Parental Lock] with ▲ ▼.

4 Press the cursor button ▶ (right direction).

5 Select [Level Change] with ▲ ▼, and then press ^{ENTER}.

■ **When a code number has not yet been registered:**
The code number registration screen is displayed.

```
Audio1 2 Video Language General
  Parental Lock: Register Code Number

        ☐ ☐ ☐ ☐

  ▶Move
  ▲▼+/−       RETURN Return  SETUP Exit
```
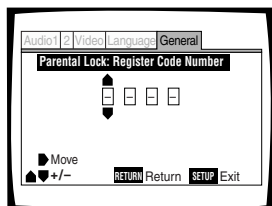
■ **When the code number has already been registered:**
The code number input screen is displayed.
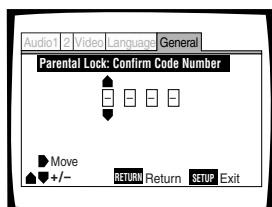
```
Audio1 2 Video Language General
  Parental Lock: Confirm Code Number

        ☐ ☐ ☐ ☐

  ▶Move
  ▲▼+/−       RETURN Return  SETUP Exit
```

6 Press the number buttons and input the code number as 4 digits.

● Pressing ▲ ▼ for each digit and selecting the numbers is also possible. Pressing ◀ ▶ moves the digit.

```
Audio1 2 Video Language General
  Parental Lock: Input Code Number

        1 0 1 9 ENTER

  ◀ Move
  +/−         RETURN Return  SETUP Exit
```

7 Press ^{ENTER}.
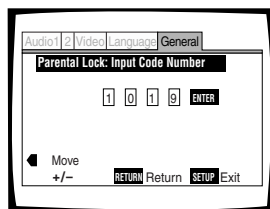
The viewing and listening restriction level setting screen is displayed.
● The setting at the time of shipment is level 8 (unrestricted).

```
Audio1 2 Video Language General
  Parental Lock: Level Change

        🔓🔓🔓🔓🔓🔓🔓 8
  Level  1 2 3 4 5 6 7 8

                    RETURN Return
  ◀▶ Move   ENTER Select  SETUP Exit
```
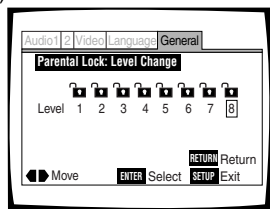
8 With ◀ ▶, select the appropriate number for the level.

For example, if level 6 has been selected, viewing and listening restrictions are applied with respect to any discs of levels 7 and 8.

```
Audio1 2 Video Language General
  Parental Lock: Level Change

        🔓🔓🔓🔓🔓 🔒 🔒
  Level  1 2 3 4 5 6 7 8

                    RETURN Return
  ◀▶ Move   ENTER Select  SETUP Exit
```

9 Press ^{ENTER}.

The level of the viewing and listening restrictions is set.

Notes:
We recommend you make a note of the code number.
If you forget the code number, return to the setting when shipped (page 38) and then reset it.

Settings

Setting viewing and listening restrictions (Parental Lock)

When a DVD with a set Parental Lock level is loaded

When a DVD with a set Parental Lock level is loaded, password input screen may be displayed. Playback cannot be started until the password has been correctly input.

1 Press the number buttons and input the code number as 4 digits.

● Pressing ▲ ▼ for each digit and selecting the numbers is also possible. Pressing ◄ ► moves the digit.

```
Audio1 2 Video Language General
Parental Lock: Confirm Code Number

   ▲
   □  □  □  □
   ▼

►Move
▲▼+/−              RETURN Return  SETUP Exit
```

2 Press ENTER .
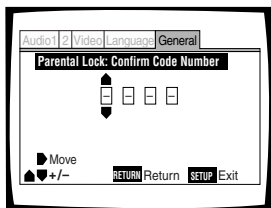
Playback starts.

Note:
Some discs will skip while playing back only the scenes that have had their viewing and listening restricted. See the operation method for with the disc to get details.

Changing the code number

1 Perform the operations of procedures 1 ~ 4 "Setting the restriction level" on the previous page

2 Press ▲ ▼, select [Password Change], and press ENTER .

The code number input screen is displayed.

```
Audio1 2 Video Language General
Parental Lock: Confirm Code Number

   □  □  □  □

►Move
▲▼+/−              RETURN Return  SETUP Exit
```
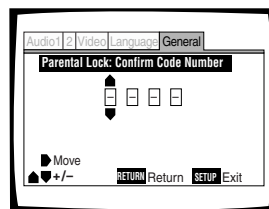
3 Press the number buttons and input the present code number with 4 digits.

● Pressing ▲ ▼ for each digit and selecting the numbers is also possible. Pressing ◄ ► moves the digit.

4 Press ENTER .

The code number changing screen is displayed.

5 Press the number buttons and input the new code number as 4 digits.

```
Audio1 2 Video Language General
Parental Lock: Password Change

   □  □  □  □

►Move
▲▼+/−              RETURN Return  SETUP Exit
```

6 Press ENTER .
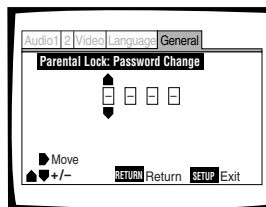
The code number is changed.

Making the ordinary settings

Setting the screen saver

The screen saver is a function to prevent the burning in (the afterglow phenomenon) of an image when the same image has been displayed for a long time such as during a pause.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [General].

3 Select [Screen Saver].

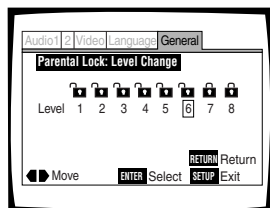**4 Press the cursor button ▶ (right direction).**

5 Select the preferred item.

6 Press ENTER.

Audio1 2 Video Language **General**
Parental Lock - Level 8
Screen Saver - Off
Background Color - Black
Background Color

◀▶▲▼Move   SETUP Exit
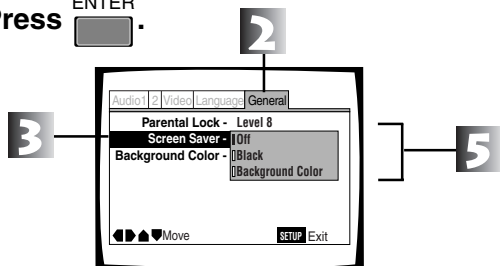
Off: The screen saver function does not work. (Setting when shipped)
Black: Screen saver set to black.
Background color: Screen saver set to background color.

7 Press SETUP.

DVD **Video CD** **CD**

Select the background color

Select the color of the screen when the disc has stopped.

1 Press SETUP.

The initial setup menu is displayed.

2 Select [General].

3 Select [Background Color].

4 Press the cursor button ▶ (right direction).

5 Press ENTER.

Audio1 2 Video Language **General**
Parental Lock - Level 8
Screen Saver - Off
Background Color - ▌▬▬▬

◀▶▲ Move   SETUP Exit
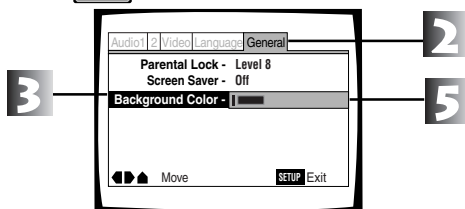
6 Adjust the coloring with the screen below and press ENTER.

Audio1 2 Video Language **General**
Background Color
▬▬
▬▬
▬▬

▼Move   RETURN Return
◀▶−/+   ENTER Select   SETUP Exit
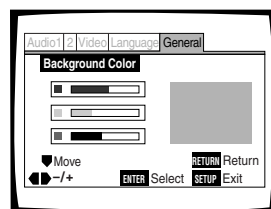
7 Press SETUP.

Settings

Setting the Digital Output

The type of digital signal that corresponds to the amplifier connected to this player can be selected. Be careful because noise may occur when the appropriate setting is not made.
Read this together with the operation manual of the amplifier that you have.

DVD

Dolby Digital Output

When the connected amplifier does not support Dolby Digital*, set to [Dolby Digital ▶ PCM].

1 Press SETUP.

The initial setup menu is displayed.

2 Select [Audio 1].

3 Select [Dolby Digital Out].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.
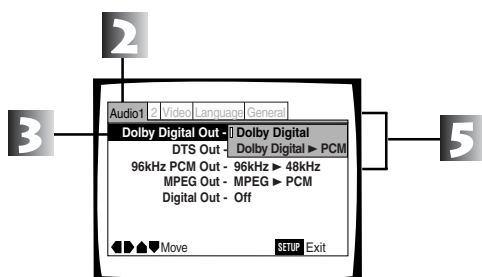
Dolby Digital: Select when connected to an amplifier or decoder that supports Dolby Digital.
(Setting when shipped)
Dolby Digital ▶ PCM: Converts a Dolby Digital signal to a linear PCM signal and outputs. Select when connected to an amplifier that does not support Dolby Digital.

7 Press SETUP.

---

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories. All rights reserved.

DVD

DTS Output

When the connected amplifier supports DTS**, set to [DTS].

1 Press SETUP.

The initial setup menu is displayed..

2 Select [Audio 1].

3 Select [DTS Out].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ENTER.
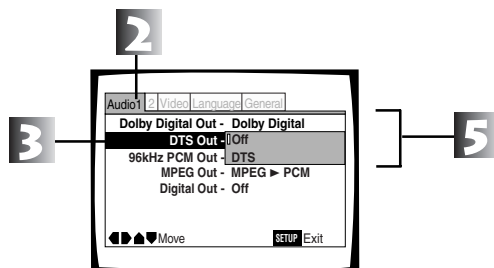
Off: Select when connected to an amplifier that does not support DTS. (Setting when shipped)
DTS: Select when connected to an amplifier or decoder that supports DTS.

7 Press SETUP.

** "DTS" and "DTS Digital " are trademarks of Digital Theater Systems, Inc. Manufactured under license from Digital Theater Systems, Inc.

96 kHz PCM Output

When the connected amplifier supports 96 kHz, set to (96 kHz). This setting cannot be changed during playback.

1 Press ⬜ SETUP.

The initial setup menu is displayed.

2 Select [Audio 1].

3 Select [96kHz PCM Out].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ⬜ ENTER.


```
          2
Audio1 2 Video Language General
    Dolby Digital Out -  Dolby Digital
    DTS Out -  Off
3   96kHz PCM Out -  96kHz ▶ 48kHz      5
    MPEG Out -  96kHz
    Digital Out -  Off

◀▶▲▼ Move                   SETUP Exit
```
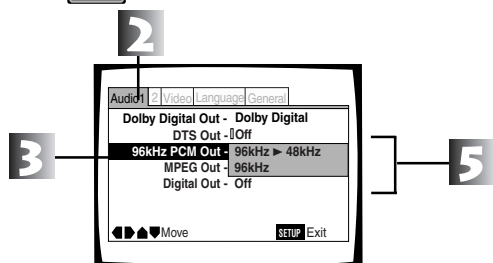
96 kHz ▶ 48 kHz: Down-samples a 96 kHz signal to 48 kHz and outputs. Select when connected to an amplifier that does not support 96 kHz.
(Setting when shipped)

96 kHz: Select when connected to an amplifier or DAC that supports 96 kHz.

7 Press ⬜ SETUP.

MPEG Output

When the connected amplifier supports MPEG, set to (MPEG).

1 Press ⬜ SETUP.

The initial setup menu is displayed.

2 Select [Audio 1].

3 Select [MPEG Out].

4 Press the cursor button ▶ (right direction).

5 Select the preferred item.

6 Press ⬜ ENTER.


```
          2
Audio1 2 Video Language General
    Dolby Digital Out -  Dolby Digital
    DTS Out -  Off
    96kHz PCM Out -  96kHz ▶ 48kHz
3   MPEG Out -  MPEG                    5
    Digital Out - MPEG ▶ PCM

◀▶▲▼ Move                   SETUP Exit
```
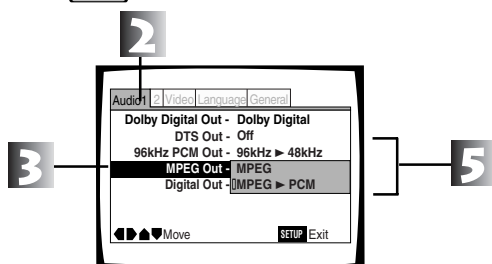
MPEG: Select when connected to an amplifier or decoder that supports MPEG.

MPEG ▶ PCM: Converts an MPEG signal to a linear PCM signal and outputs. Select when connected to an amplifier that does not supports MPEG.
(Setting when shipped)

7 Press ⬜ SETUP.

Settings

Setting the Digital Output

DVD **Video CD** **CD**

Setting the Digital Output

Can be set so that an audio signal is not output from the digital audio output terminal.

1 **Press** SETUP **.**

The initial setup menu is displayed.

2 **Select [Audio 1].**

3 **Select [Digital Out].**

4 **Press the cursor button** ▶
(right direction).

5 **Select the preferred item.**

6 **Press** ENTER **.**
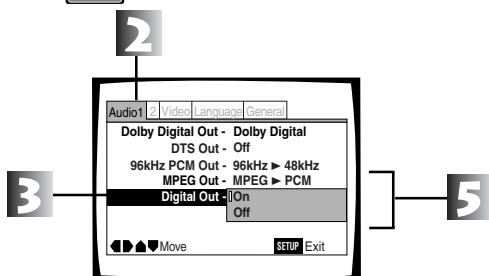
On: Outputs audio from the rear digital output terminal.
(Setting when shipped)
Off: Audio is not output from the rear digital output terminal.

7 **Press** SETUP **.**

Settings to Optimize the Audio Quality

DVD **Video CD**

Surround Setting

This player automatically switches to Virtual Dolby Digital and TruSurround in line with the playback audio.

1 **Press** SETUP **.**

The initial setup menu is displayed.

2 **Select [Audio 2].**

3 **Select [Virtual Surround].**

4 **Press the cursor button** ▶
(right direction).

5 **Select [VDD/TruSurround].**

6 **Press** ENTER **.**
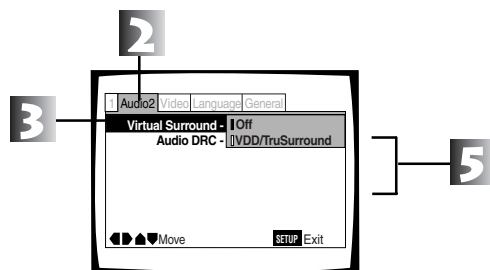
Off :   Does not work.
                 (Setting when shipped)
VDD/TruSurround : Surround sound setting

7 **Press** SETUP **.**

TruSurround and Virtual Dolby Digital

This player, by means of the TruSurround* technology of SRS Labs Inc., processes surround encoded stereo audio and multi-channel audio and reproduces Virtual Surround with only the two front speakers.

Particularly, when the playback audio is Dolby Digital multi-channel audio, the Virtual Dolby Digital function automatically works, and a surround sound with a greater sense of presence will be reproduced.
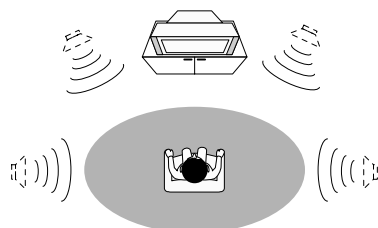
(●)TruSurround™

* TruSurround and the symbol (●) are trademarks of SRS Labs, Inc. in the United States and selected foreign countries. TruSurround technology has been commercialized by means of a license from SRS Labs, Inc.

Note
- This function does not work when the DTS audio and 96 kHz PCM audio of DVD is played back or when a CD is played back.
- When AUDIO of the remote control is pressed in the Virtual Dolby Digital mode, VDD is displayed in the upper left of the screen.
- When [Dolby Digital Output] of [Audio 1] of the "Initial Setup Screen" is set to [Dolby Digital ► PCM] in Virtual Dolby Digital mode, audio is not output from the digital output terminal. (See page 34)
- The surround effect of some discs may be small depending on the disc.

DVD　Video CD　CD

Dynamic Range Compression Setting

Adjust the dynamic range of the audio soundtrack.
This function makes loud volume lower, and low volume louder.
When Audio DRC (Dynamic Range Compression) is on, movie soft sounds such as dialogue can be heard more clearly without making loud sounds even louder.

1 **Press** SETUP.

The initial setup screen is displayed.

- - - - - - - - - - - - - - - - - - - -

2 **Select [Audio 2].**

- - - - - - - - - - - - - - - - - - - -

3 **Select [Audio DRC].**

- - - - - - - - - - - - - - - - - - - -

4 **Press the cursor button ▶ (right direction).**

- - - - - - - - - - - - - - - - - - - -

5 **Select the preferred item.**

- - - - - - - - - - - - - - - - - - - -

6 **Press** ENTER.
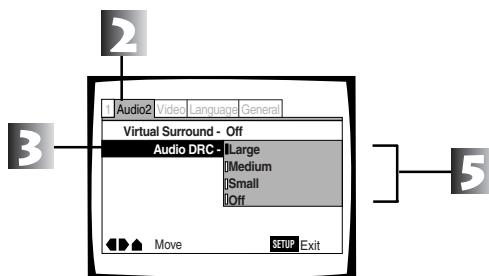
Large:	Maximum compression of audio source
Medium:	Moderate compression of audio source
Small:	Minimum compression of audio source
Off:	Cancel the audio DRC (Setting when shipped)

- - - - - - - - - - - - - - - - - - - -

7 **Press** SETUP.

Note
- Audio DRC is only effective with Dolby Digital audio sources.
- Audio DRC effects depending on the speakers and amp that you connected. Adjust the setting of the amp and speaker to set them most effective.

37
En

Returning to the default settings at the time of shipment

DVD **Video CD** **CD**

All the settings can be returned to the default state at the time of shipment.

> When this operation is performed, all the data stored in the memory (page 18) will be simultaneously erased. Be sufficiently careful before returning to the default settings.

1 **With power to the unit in the standby status, Press and hold ⟐ of the player and press ⟐ of the player.**

Some of the settings are returned to the default status at the time of shipping but the other does not returned.

Setting which is returned to the default status
SETUP menu, ADV. SETUP menu, program memory, parental lock.
Setting which is not returned to the default status
Command stack, Video blackboard data, clock

Language code list

DVD

Language (Language code)	Input code	Language (Language code)	Input code	Language (Language code)	Input code	Language (Language code)	Input code
Japanese (ja)	1001	Basque (eu)	0521	Lithuanian (lt)	1220	Shona (sn)	1914
English (en)	0514	Persian (fa)	0601	Latvian (lv)	1222	Somali (so)	1915
French (fr)	0618	Finnish (fi)	0609	Malagasy (mg)	1307	Albanian (sq)	1917
German (de)	0405	Fiji (fj)	0610	Maori (mi)	1309	Serbian (sr)	1918
Italian (it)	0920	Faroese (fo)	0615	Macedonian (mk)	1311	Siswati (ss)	1919
Spanish (es)	0519	Frisian (fy)	0625	Malayalam (ml)	1312	Sesotho (st)	1920
Dutch (nl)	1412	Irish (ga)	0701	Mongolian (mn)	1314	Sundanese (su)	1921
Russian (ru)	1821	Scots-Gaelic (gd)	0704	Moldavian (mo)	1315	Swedish (sv)	1922
Chinese (zh)	2608	Galician (gl)	0712	Marathi (mr)	1318	Swahili (sw)	1923
Korean (ko)	1115	Guarani (gn)	0714	Malay (ms)	1319	Tamil (ta)	2001
Greek (el)	0512	Gujarati (gu)	0721	Maltese (mt)	1320	Telugu (te)	2005
Afar (aa)	0101	Hausa (ha)	0801	Burmese (my)	1325	Tajik (tg)	2007
Abkhazian (ab)	0102	Hindi (hi)	0809	Nauru (na)	1401	Thai (th)	2008
Afrikaans (af)	0106	Croatian (hr)	0818	Nepali (ne)	1405	Tigrinya (ti)	2009
Amharic (am)	0113	Hungarian (hu)	0821	Norwegian (no)	1415	Turkmen (tk)	2011
Arabic (ar)	0118	Armenian (hy)	0825	Occitan (oc)	1503	Tagalog (tl)	2012
Assamese (as)	0119	Interlingua (ia)	0901	Oromo (om)	1513	Setswana (tn)	2014
Aymara (ay)	0125	Interlingue (ie)	0905	Oriya (or)	1518	Tonga (to)	2015
Azerbaijani (az)	0126	Inupiak (ik)	0911	Panjabi (pa)	1601	Turkish (tr)	2018
Bashkir (ba)	0201	Indonesian (in)	0914	Polish (pl)	1612	Tsonga (ts)	2019
Byelorussian (be)	0205	Icelandic (is)	0919	Pashto, Pushto (ps)	1619	Tatar (tt)	2020
Bulgarian (bg)	0207	Hebrew (iw)	0923	Portuguese (pt)	1620	Twi (tw)	2023
Bihari (bh)	0208	Yiddish (ji)	1009	Quechua (qu)	1721	Ukrainian (uk)	2111
Bislama (bi)	0209	Javanese (jw)	1023	Rhaeto-Romance (rm)	1813	Urdu (ur)	2118
Bengali (bn)	0214	Georgian (ka)	1101	Kirundi (rn)	1814	Uzbek (uz)	2126
Tibetan (bo)	0215	Kazakh (kk)	1111	Romanian (ro)	1815	Vietnamese (vi)	2209
Breton (br)	0218	Greenlandic (kl)	1112	Kinyarwanda (rw)	1823	Volapük (vo)	2215
Catalan (ca)	0301	Cambodian (km)	1113	Sanskrit (sa)	1901	Wolof (wo)	2315
Corsican (co)	0315	Kannada (kn)	1114	Sindhi (sd)	1904	Xhosa (xh)	2408
Czech (cs)	0319	Kashmiri (ks)	1119	Sangho (sg)	1907	Yoruba (yo)	2515
Welsh (cy)	0325	Kurdish (ku)	1121	Serbo-Croatian (sh)	1908	Zulu (zu)	2621
Danish (da)	0401	Kirghiz (ky)	1125	Sinhalese (si)	1909		
Bhutani (dz)	0426	Latin (la)	1201	Slovak (sk)	1911		
Esperanto (eo)	0515	Lingala (ln)	1214	Slovenian (sl)	1912		
Estonian (et)	0520	Laothian (lo)	1215	Samoan (sm)	1913		

Advanced Feature Operations

In the Basic Operation edition, basic handling of this unit is explained. In this Advanced Features edition, however, original features of this unit are explained.

● Using the ADV.SETUP Menu

This player, in addition to the SETUP menu, has an ADV.SETUP menu for setting special functions such as the weekly timer and power-on start.

● Player control using mouse

Control method using the mouse is explained in this section.
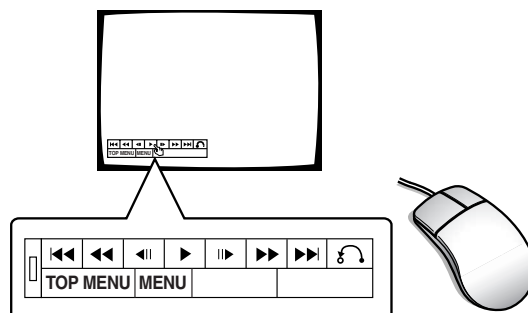
● Barcode/command stack function

Various barcodes or commands used to control the DVD-V7400 can be stored in this player's memory in advance.
Memorized content can be recalled for successive or step by step execution.
With this function, program playback is possible using the player alone without the need for a computer, controller or advance registration of barcodes. (Memorized data is not erased even if the AC power cord is unplugged.)

Uses
- ● Sale promotion presentation
- ● Picture reference/Picture exhibition
- ● Education/training

Input

```
BC/COMMAND STACK  GROUP  001: 001

001      01:02-03
002      03:001234-002365
003      02:05-08
004      01:045867-123456
005      STEP FWD
```
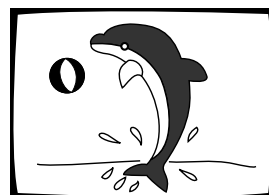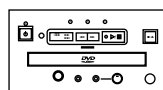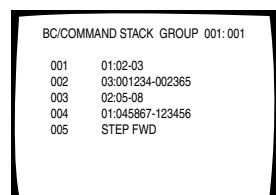
Playback

Input

Command input with provided remote control unit

Input

Barcode input with barcode reader

Automatic playback

● Provided remote control unit ● External option switch ● Successive playback/repeat with Weekly timer/Power on start

Manual playback

Step by step playback with provided remote control unit

Settings

Advanced Operations

● Video blackboard function

Using the mouse and keyboard, pictures, lines and characters (alphabet, numbers, symbols) can be drawn during video playback or displayed alone.

Free lines can be drawn on the picture during playback, and pre-drawn drawings or characters can be superimposed on the image and displayed at a specified position during playback. (Memorized data is not erased even if the AC power cord is unplugged.)

How to use
- A pointer
- For picture subtitle
- For picture explanation
- For picture masking

Uses
- Sale promotion presentation
- Education/training

Curved lines can be drawn with the mouse

What is this?

Summer Festa!!
7/21-8/31

Pre-drawn drawings or characters can be automatically superimposed on the picture
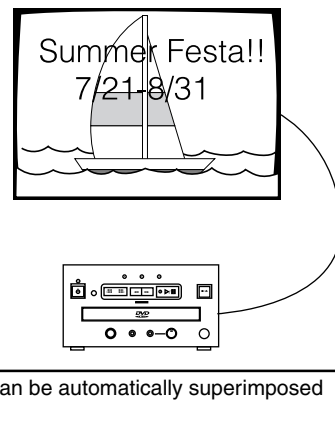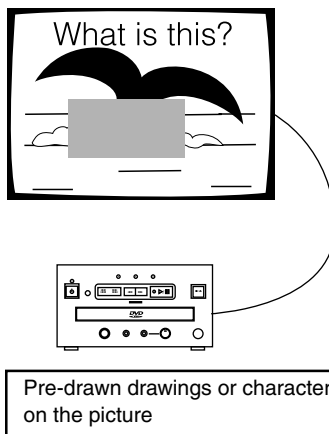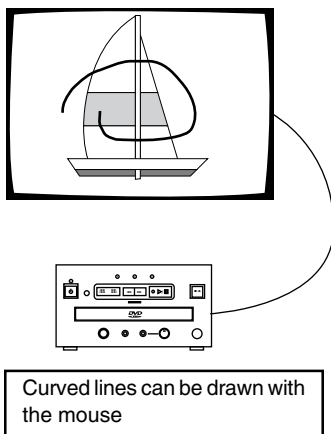
● External synchronizing function

● Playback time/Power supply time display

ADV. SETUP MENU settings

```
ADV.SETUP                 page 1/2
▶ WEEKLY TIMER            OFF
  POWER ON START          OFF
  TITLE PLAY MODE         Single
  REPEAT MODE             OFF
  BAUD RATE               4800bps
  TRAY LOCK               OFF
  BLACKBOARD LOCK         OFF
  STACK MODE OSD          ON
  REV STEP/REV PLAY       VOBU
                          SETUP Exit
```

```
ADV.SETUP                 page 2/2
▶ PLAYER CONTRL PANEL     Selectable
  SETUP LOCK(MOUSE)       ON
  EXTERNAL OPTION SW      Standard
  SYNC OUT (DURING SQ)    OFF
  EXTERNAL SYNC           OFF
  AV SYNC COMPENSATE      ON


                          SETUP Exit
```
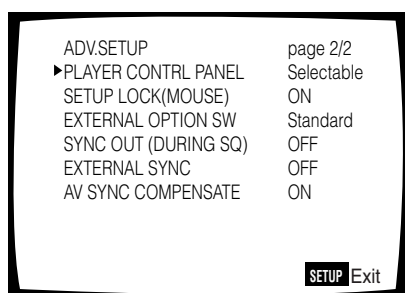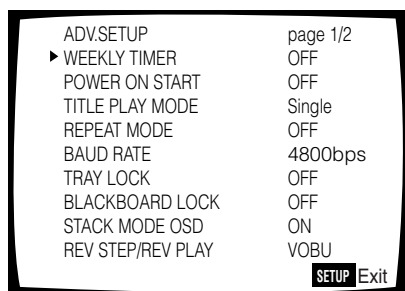
Above picture indicates the initial settings.

DVD **Video CD** **CD**

To access the ADV. SETUP menu

Press and hold [SETUP] for one second.

The screen displays the special menu shown in the figure on the left (hereafter called the ADV.SETUP menu).

To set a parameter, for example, the weekly timer, select **WEEKLY TIMER** with [▲] [▼] , set ON/OFF, etc. with [◄] [►], If a parameter is set to ON, press [ENTER] and perform the setting instructions as prompted on the screen.

Likewise, for power-on start, select **POWER ON START** with [▲] [▼], set ON/OFF, etc. with [◄] [►], If a parameter is set to ON, press [ENTER], set ON/OFF to ON and perform the setting instructions as prompted on the screen.

A similar procedure is used to set the other parameters with [▲] [▼] and set ON/OFF, etc. with [◄] [►].

In order to set up the unique functions of the DVD-V7400, there are settings for 16 parameters that are made by the remote control unit.

① **WEEKLY TIMER**
The time for turning the power on and off can be set for each day of the week; moreover, the title and chapter where playback is to start can also be set. The player is limited to a maximum of 24 settings at one time. This function makes unmanned operation possible.
OFF: The WEEKLY TIMER function does not operate.
ON: The WEEKLY TIMER function operates.

② **POWER ON START**
This function sets whether or not automatic playback is to start when the power is switched on.
OFF: The POWER ON START function does not operate.
ON: The POWER ON START function operates. It is also necessary to set the playback title and chapter to identify the starting point for playback. If this starting point is not identified, the player waits in the playback stop status.

③ **TITLE PLAY MODE**
Single: When a single title has been selected in this mode, the DVD player stops when this one title has been played back.

All: When this mode has been selected, the player plays back each title on a DVD disc in turn until all have been played.

④ **REPEAT MODE**
Select OFF/CHAPTER/TITLE/DISC from the menu.
When TITLE PLAY MODE is set to ALL,DISC is be selected.
OFF: The DVD player plays back in the normal status and does not repeat.
CHAPTER: One selected chapter only is repeated (DVD).
One selected track only is repeated (Video CD, CD).
TITLE: Playing back repeats only one title (DVD).
Playing back repeats the entire disc (Video CD, CD).
DISC: Playing back repeats the entire disc (DVD only).

⑤ **BAUD RATE**
This sets the baud rate of the RS-232C interface. Two baud rates of 4800 bps and 9600 bps can be selected.

⑥ **TRAY LOCK**
When set to ON, the opening and closing action of the disc tray is locked.

⑦ **BLACKBOARD LOCK**
When set to ON, entering the video blackboard input mode is prevented.

⑧ **STACK MODE OSD**
This controls ON/OFF switching of the OSD when executing a stack.
ON: The STACK display appears on the screen when executing a stack and when searching.
OFF: The STACK display does not appear on the screen.

Advanced Operations

ADV. SETUP MENU settings

⑨ REV STEP/REV PLAY

This selects the image units for reverse play.

VOBU: This depends on the disc being played back, but usually reverses in blocks of 0.4 - 1 second.

Frame: Reverses at intervals of one frame.

⑩ PLAYER CONTROL PANEL

This selects the display mode of the icon panel that can be controlled with a mouse.

Selectable: Press (click) the left and right buttons of the mouse simultaneously, or with the left button pressed, click the right button, and the icon control panel is displayed.

Always On: The icon control panel is always displayed. However, there are times when the panel will not be displayed due to the various setup screens.

Always Off: The icon control panel is not displayed.

⑪ SETUP LOCK (MOUSE)

This sets whether or not the SETUP or ADV.SETUP menu can be activated from the icon control panel.

ON: The SETUP or ADV.SETUP menu cannot be activated from the icon control panel.

OFF: When the SETUP button on the icon control panel is left- clicked with the mouse, the SETUP menu is activated, and when the ADV.SETUP button is left-clicked, the ADV.SETUP menu is activated.

⑫ EXTERNAL OPTION SW

This is used to set the key of the external option switch.

Standard: Input of all external option keys is possible.

Limit: Only the following input is possible among the external option keys:
Up/down/left/right cursor, ENTER, number keys 1-6, STACK GROUP 1-6, TOP MENU, and MENU

⑪ SYNC OUT (DURING SQ)

This function sets whether or not a video synchronization signal is output to a black screen or to a blue background when the player is not outputting video.

OFF: Video is always output
(the synchronization signal remains).

ON: Video is not output at times other than during playback and during menu screen display.

⑭ EXTERNAL SYNC

This selects the synchronized TV signal format when external synchronization is input.

OFF: This setting prohibits the external synchronizing function.

PAL : When the DVD disc is to be played back in PAL format.

NTSC: When the DVD disc is to be played back in NTSC format

⑮ AV SYNC COMPENSATE

This is set when a method that uses external synchronization is used, when the player is used by itself, and when multiple units are operated side by side and the video frames are aligned.

ON: When using the player by itself

OFF: When multiple units are operated side by side and the video frames are aligned

Note

Setting below items can not be changed during playback.
Operate them in the stop mode.

● REV STEP/REV PLAY
● EXTERNAL SYNC
● AV SYNC COMPENSATE

Player control using a mouse

Mouse operation is possible by connecting a PS/2 mouse and turning power ON.

**DVD** **Video CD**

Button Selection

You can use the mouse to select DVD Menu buttons and buttons displayed on the screen.

When the mark cursor is placed on a button, it changes ⬉ to the 👆 mark. While the cursor is displayed as the 👆 mark, clicking on a button with the left button on the mouse lets you perform operations in the same way as with the remote control.

* Menu selection with the mouse is not possible with Video CDs.

DVD **Video CD** **CD**

Player control icon

Pressing the mouse's left and right button simultaneously or clicking the right button while holding the left button displays the player control icons on the bottom left of the screen. When the mouse pointer is placed on a player control icon, the pointer changes from ⬉ to 👆 . While the pointer is in the form of 👆 , clicking with the left mouse button performs the same operation as the remote control unit button.

Discs Function	DVD	Video CD	CD
▶▶❙	YES	YES	YES
▶▶	YES	YES	YES
❙❙▶	YES	YES	NO
▶	YES	YES	YES
◀❙❙	YES	NO	NO
◀◀	YES	YES	YES
❙◀◀	YES	YES	YES
↪	YES	YES	NO
TOP MENU	YES	NO	NO
MENU	YES	NO	NO

● The buttons appearing in video images recorded on commercially available DVD video discs may not be located in the recognized positions. With such discs, please use the remote control unit instead of the mouse.

In the case of a DVD

During playback							
	REV				FWD		RETURN
SKIP	SCAN	STEP	PLAY	STEP	SCAN	SKIP	
❙◀◀	◀◀	◀❙❙	▶	❙❙▶	▶▶	▶▶❙	↪
TOP MENU	MENU						

When the player control icon already mentioned is left-clicked with the mouse, an action is performed similar to that when each button of the remote control unit is pressed.

A
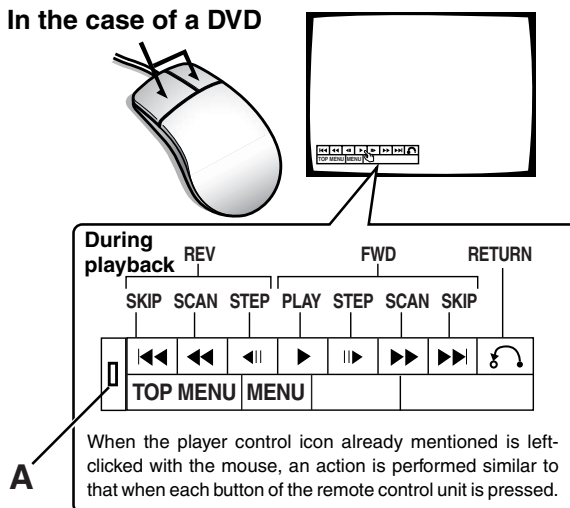
● When SETUP LOCK (MOUSE) on the ADV. SETUP menu is set to OFF, the SETUP and ADV. SETUP buttons appear on the player control panel. You can click these buttons with the mouse to enter the corresponding SETUP menu.

● When SETUP LOCK (MOUSE) is set to OFF and point "A" is dragged with the left mouse button held down, the location of the player control panel can be changed. Once the location is changed, the new location will be maintained until the power is turned off. The default panel position is restored when the power is turned off, then back on again. Initialization is also performed when the OSD position is changed and when the video blackboard is displayed.

NOTE
● *The position of the player controls cannot be changed during playback of PAL discs.*
● *The position of the player control panel cannot be changed when the [OSD Position] in the SETUP MENU is set to [Wide] or when the video blackboard is displayed.*

In the case of a Video CD

In case of left click, this unit works as the icon indicated Video titles cannot be directly selected with a mouse. Right- clicking the player control icon, as in the figure, displays a number at the upper right of the screen, and pressing the ▶ the title of the number that has been input to be selected.

Track number

4

In the case of the rignt click

The numbers consecutively decrease by one.　　The numbers consecutively increase by one.

❙◀◀	◀◀	◀❙❙	▶	❙❙▶	▶▶	▶▶❙	↪

ENTER
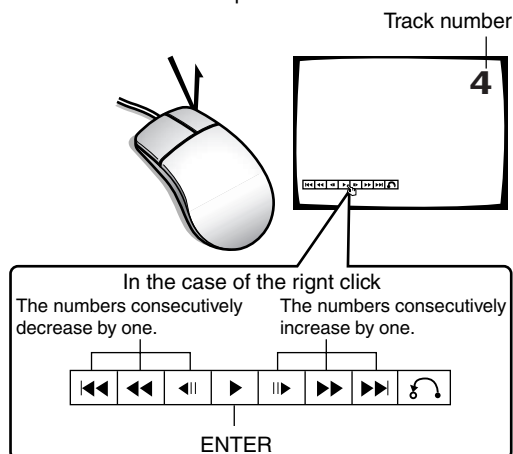
Note
If the title of the number that has been input is not present or mouse operation is prohibited, it cannot be executed.

Weekly timer function operation/display

1

```
ADV.SETUP                page 1/2
▶ WEEKLY TIMER           OFF
  POWER ON START         OFF
  TITLE PLAY MODE        Single
  REPEAT MODE            OFF
  BAUD RATE              4800bps
  TRAY LOCK              OFF
  BLACKBOARD LOCK        OFF
  STACK MODE OSD         ON
  REV STEP/REV PLAY      VOBU
                         SETUP Exit
```

2

ON

```
ADV.SETUP                page 1/2
▶ WEEKLY TIMER           ON
  POWER ON START         OFF
  TITLE PLAY MODE        Single
  REPEAT MODE            OFF
  BAUD RATE              4800bps
  TRAY LOCK              OFF
  BLACKBOARD LOCK        OFF
  STACK MODE OSD         ON
  REV STEP/REV PLAY      VOBU
                         SETUP Exit
```

3-4

1/3 shows that there are three pages of setting, and that this screen is the first of those pages.

```
▶00–00–00 ── 00:00.00 (1/3)
              ON      OFF
MON   --:--  --:--
TUE   --:--  --:--
WED   --:--  --:--
THU   --:--  --:--
FRI   --:--  --:--
SAT   --:--  --:--
SUN   --:--  --:--
ALL   --:--  --:--
                  ⟳ RETURN
```

5

```
▶00–04–29 SAT 08:15.00 (1/3)
              ON      OFF
MON   --:--  --:--
TUE   --:--  --:--
WED   --:--  --:--
THU   --:--  --:--
FRI   --:--  --:--
SAT   --:--  --:--
SUN   --:--  --:--
ALL   --:--  --:--
                  ⟳ RETURN
```
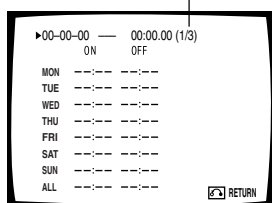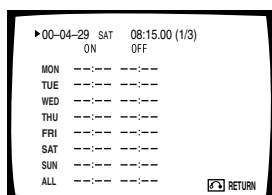
Tip
● The internal clock has a tolerance of approximately ±2 minutes per month. (The amount varies depending on the usage environment.)
● The built-in clock is powered by a capacitor. The clock of this unit functions even when it is in the STANDBY mode, provided that the AC cord is plugged into a power outlet. If the AC cord is unplugged, the clock can continue functioning for 7 to 10 days (when the capacitor is fully charged and at 25°C (77°F)) .
● Weekly timer setting is kept remembered as if AC cord is unplugged for long times.

DVD Video CD CD

Setting/correcting the current time

Set the current date and time.

1. Move the ▶ (pointer) to "WEEKLY TIMER" by pressing ▲ or ▼ .

2. Press ◀ or ▶ and set to ON.

3. Press ENTER.
● The Weekly Timer setting screen is displayed.

4. Press ENTER.
● The date/time setting screen is displayed blinking.

5. Set the time of the day.
● Set figures in order of year (2 digits), month, day, day of the week, hour, minute and second.

These figures can be input in any of the following two methods.

A. Input using the numeric buttons and NEXT ▶▶

B. Input using ▲ or ▼ and ENTER

● "A" and "B" in the following description refers respectively to the two operation methods above.

Example) To set to 8:15:00, Saturday April 29, 2000

A: Press [0] → [0] → NEXT ▶▶ → [0] → [4] → NEXT ▶▶ → [2] → [9] → NEXT ▶▶ → [5] → NEXT ▶▶ → [0] → [8] → NEXT ▶▶ → [1] → [5] → NEXT ▶▶ → [0] → [0] → NEXT ▶▶ .
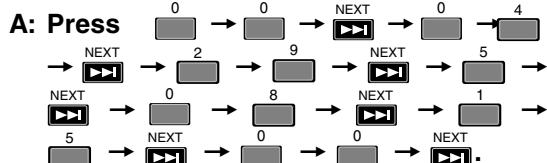
*The days of the week can be set using the following numeric buttons.
  MON: 0,   TUE: 1,   WED: 2,   THU: 3,
  FRI: 4,   SAT: 5,   SUN: 6.

B: Press the ▲ or ▼ to select 00 and press ENTER to start the setting of the next set of figures (the month in this case). Set the month, date, day of the week, hour, minute and second, and press ENTER to complete the setting operation.

To correct the date or time

When the setting screen appears in step 3 above, press ENTER so that the figures of the year start to blink. Then press NEXT ▶▶ 4 times so that the figures of hour blink, and set them with the same method as above.

1

```
00–04–29  SAT    08:15.00 (1/3)
              ON        OFF
   MON    ––:––   ––:––
   TUE    ––:––   ––:––
 ▶ WED    ––:––   ––:––
   THU    ––:––   ––:––
   FRI    ––:––   ––:––
   SAT    ––:––   ––:––
   SUN    ––:––   ––:––
   ALL    ––:––   ––:––      ⟲ RETURN
```

RETURN   ENTER

```
TIMER ON/OFF    WED

ON ––:––   OFF ––:––

1.TOP MENU

2.TITLE

3.BARCODE/COMMAND STACK

       ⊟CLEAR  ⏎ENTER  ⟲RETURN
```

2

```
TIMER ON/OFF    WED

ON 10 : 30   OFF ––:––

1.TOP MENU

2.TITLE

3.BARCODE/COMMAND STACK

       ⊟CLEAR  ⏎ENTER  ⟲RETURN
```

↓

```
TIMER ON/OFF    WED

ON 10 : 30   OFF 17 : 45

1.TOP MENU

2.TITLE

3.BARCODE/COMMAND STACK

       ⊟CLEAR  ⏎ENTER  ⟲RETURN
```

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

DVD Video CD CD

Setting the weekly timer

1. When the setting screen appears in step 3 on the previous page, press ▲ or ▼ to move ▶ (pointer) to the day of the week and press ENTER.

● Power ON/OFF time setting display appears.

2. Set the power ON/OFF time.
Example 1)   To turn power ON at 10:30 on Wednesday

● Move ▶ (pointer) to "WED" and press ENTER.

A: Press 1 → 0 → NEXT ▶▶| → 3 → 0
→ NEXT ▶▶| → NEXT ▶▶|.

B: Press ▲ or ▼ to select 10 and press ENTER the item to set the setting of the next set of figures. Now Press ▲ or ▼ to set it to 30 and press ENTER twice.

● If the power OFF time is not set, the timer simply turns power ON.

Example 2)   To turn power ON at 10:30 on Wednesday and turn it off at 17:45

A: Press 1 → 0 → NEXT ▶▶| → 3 → 0
→ NEXT ▶▶| → 1 → 7 → NEXT ▶▶| → 4 →
5 → NEXT ▶▶|.

B: Press ▲ or ▼ to select 10 and press ENTER item to set the setting of the next set of figures. Set the subsequent sets of figures to 30, 17 and 45 by repeating the above.

NOTE:
It is also possible to set only the power OFF time without setting the power ON time. In this case, when power is turned ON manually, it will be turned OFF at the set time.

- ● You can set the WEEKLY TIMER with the mouse as well as with the remote control.
- ● Where 🖑 is displayed, clicking with the left mouse button lets you change selections or settings.
- ● Each time you click the left mouse button, the numerical value is increased by one, Each time you click the right button, the numerical value is decreased by one.
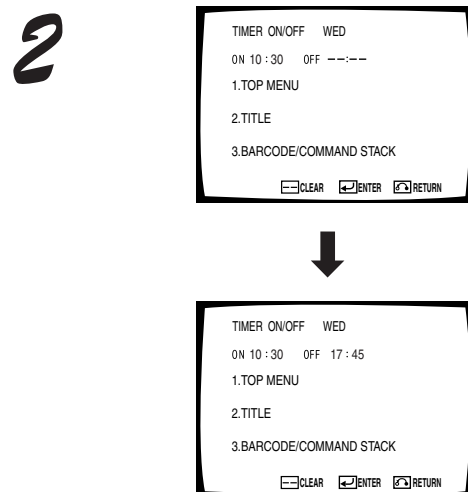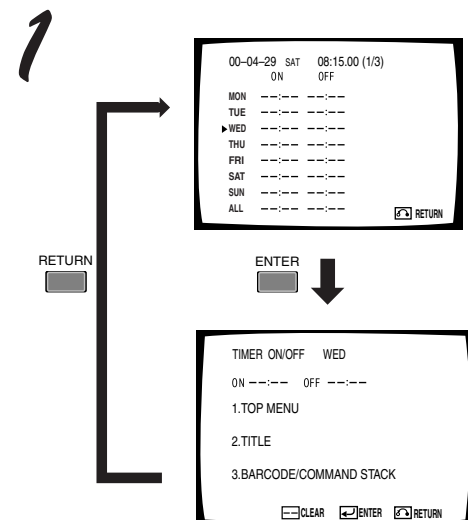
Advanced Operations

3

1

```
TIMER ON/OFF    WED
ON 10 : 30    OFF  17 : 45
▶1.TOP MENU
2.TITLE
3.BARCODE/COMMAND STACK
          CLEAR    ENTER    RETURN
```

2

```
TIMER ON/OFF    WED
ON 10 : 30    OFF  17 : 45
1.TOP MENU
▶2.TITLE
3.BARCODE/COMMAND STACK
          CLEAR    ENTER    RETURN
```

3

```
TIMER ON/OFF    WED
ON 10 : 30    OFF  17 : 45
1.TOP MENU
2.TITLE
▶3.BARCODE/COMMAND STACK
          CLEAR    ENTER    RETURN
```

For your reference
Memorized data is not erased even if AC power cord is unplugged.

```
TIMER ON/OFF    WED
ON 10 : 30    OFF  17 : 45
1.TOP MENU
▶2.TITLE
3.BARCODE/COMMAND STACK
          CLEAR    ENTER    RETURN
```

Pointer

⬇

```
00–04–29  SAT  08:15.00
              ON        OFF
MON    --:--    --:--
TUE    --:--    --:--
▶WED   10:30   17:45   T06:C02
THU    --:--    --:--
FRI    --:--    --:--
SAT    --:--    --:--
SUN    --:--    --:--
ALL    --:--    --:--        RETURN
```

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

3. **Set the operation to be performed at the moment timer playback starts.**

1. TOP MENU: Setup for playing from top of the menu.
2. TITLE: Setup for playing the specified title and chapter.
  ● Refer to "Playing the specified title and chapter".
3. BARCODE COMMAND STACK: Setup for recalling the display of the barcode command stack groups from memory.
  ● Refer to "Setup for recalling the barcode/command stack groups from memory" (See page 47).
  ● Select one of the above with ▲ or ▼, and press ENTER.

NOTE
● *This step cannot be performed if the power ON time has not been set.*
● *The data is written in memory at the moment the timer setup screen is exited. The timer setup will not be stored in memory if power is turned off before or without exiting the screen.*
● *On a DVD disc that has been setup to start playback automatically, the setup made above will not be applied to the disc.*

DVD **Video CD** **CD**

Clearing the set time

With the TIMER ON/OFF time input screen (shown left) displayed, press CLEAR and then press ENTER of the remote control unit.

DVD **Video CD** **CD**

Playing the specified title and chapter

● Move ▶ (pointer) to "2 TITLE" and press ENTER.
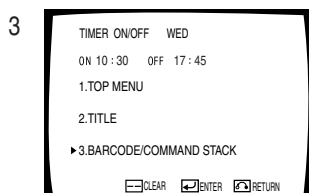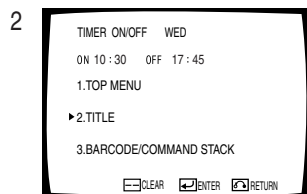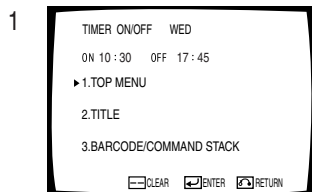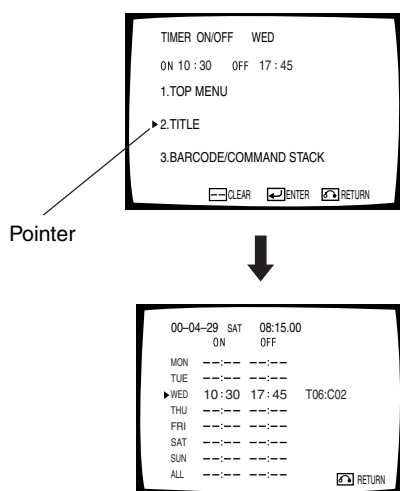
Example) To begin playback with Chapter 2 of Title 6

A: Press 0 → 6 → NEXT ▶▶| → 0 → 2
→ NEXT ▶▶| .
B: Press ▲ or ▼ to select 06 and press ENTER to start the setting of the next set of figures. Now press ▲ or ▼ to select 02 and press ENTER.

NOTE
● *When a title and chapter are selected, playback continues after the selected chapter only when there is one or more chapter after it. Playback completes at the end of the selected title.*
  If repeat playback is set in the ADV SETUP menu, the selected chapter is played first then the set repeat playback starts.
● *When setting tracks on a CD or Video CD, please enter the track number in the CHAPTER in the above setting. At this time TITLE and BARCODE/COMMAND STACKs settings will not operate.*

Setting to turn on player power only

When selecting a title, enter a title which is not on the disc. **Example: Enter title 99.**

DVD

Setup for recalling the barcode/command stack groups from memory

● Move the pointer to 3. BARCODE/COMMAND STACK and press ⏎ ENTER .

Example) **To recall and execute Barcode/Command stack group "5"**

```
TIMER ON/OFF    SAT
ON 10 : 30    OFF  17 : 45
1.TOP MENU
2.TITLE
▶ 3.BARCODE/COMMAND STACK
        ⊟CLEAR  ⏎ENTER  ↺RETURN
```

```
00–04–29  WED   08:15.00 (1/3)
              ON        OFF
MON   ––:––  ––:––
TUE   ––:––  ––:––
▶ WED   10 : 30  17 : 45   GROUP005
THU   ––:––  ––:––
FRI    ––:––  ––:––
SAT   ––:––  ––:––
SUN   ––:––  ––:––
ALL    ––:––  ––:––        ↺ RETURN
```

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

> **A: Press** [5] → [▶▶I NEXT] .
> **B: Press** [▲] **or** [▼] **to select 005 and press** [ENTER] .
> Now the timer setting is complete.

NOTE

When a Barcode Command stack group is selected, the command stack within the group will be executed repeatedly regardless of whether the repeat mode in the ADV SETUP menu is set to ON or OFF.

DVD Video CD CD

Setting the timer function not to operate with the weekly timer setting left as is

1. **Move the ▶ (pointer) to WEEKLY TIMER on the ADV SETUP menu screen with [▲] or [▼] and set to OFF with the remote control unit's [◀] or [▶].**
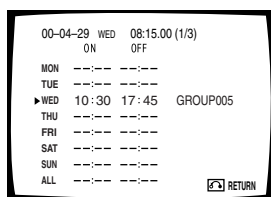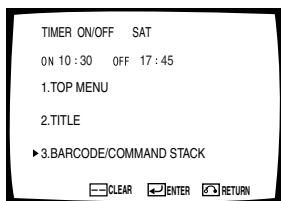
```
ADV.SETUP            page 1/2
▶ WEEKLY TIMER          OFF
POWER ON START          OFF
TITLE PLAY MODE        Single
REPEAT MODE             OFF
BAUD RATE            4800bps
TRAY LOCK               OFF
BLACKBOARD LOCK         OFF
STACK MODE OSD          ON
REV STEP/REV PLAY      VOBU
                    SETUP Exit
```

Advanced Operations

47
En
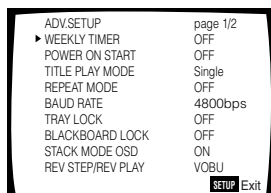
DVD Video CD CD

Setting the WEEKLY TIMER and Expandable Functions

You can change the day for the WEEKLY TIMER settings. This setting allows for the power to be turned on and off more than two times in the same day. In addition, with the ALL setting, the player can be set to turn on and off at the same time every day.

DVD Video CD CD

Setting the day for the WEEKLY TIMER

1. **Select the WEEKLY TIMER setup screen.**
● For information on how to select this screen, see page 44 and 45.

1

TIMER ON/OFF   MON
ON --:-- OFF --:--
1.TOP MENU
2.TITLE
3.BARCODE/COMMAND STACK
☐CLEAR ⏎ENTER ↩RETURN

Blink

Blink

2

TIMER ON/OFF   MON
ON --:-- OFF --:--
1.TOP MENU
2.TITLE
3.BARCODE/COMMAND STACK
☐CLEAR ⏎ENTER ↩RETURN

2. **When the setting area below ON is blinking, press** PREV **◄◄.**
●The setting that indicates the day of the week will begin to blink.

▲ or ▼

Display changes MON ～ ALL

3

TIMER ON/OFF   SUN
ON --:-- OFF --:--
1.TOP MENU
2.TITLE
3.BARCODE/COMMAND STACK
☐CLEAR ⏎ENTER ↩RETURN

3. **Select a day by using ▲ or ▼.**

In step 3 above, as you press ▲ or ▼, the following 8 possible settings will be displayed: MON, TUE, WED, THU, FRI, SAT, SUN, and ALL. For information on how the WEEKLY TIMER operates when ALL is selected, see page 49.

4

TIMER ON/OFF   SUN
ON --:-- OFF --:--
1.TOP MENU
2.TITLE
3.BARCODE/COMMAND STACK
☐CLEAR ⏎ENTER ↩RETURN

Blink

4. **Press** NEXT **►►.**
● For information on how to turn the timer ON/OFF and other settings, see page 45.

You do not have to use the remote control, the mouse can be used as well. Position the cursor over the day setting and click the left mouse button to change the day.

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

Example 1)

```
00–04–29 SAT  08:15.00 (1/3)
               ON     OFF
   MON  --:--   --:--
   TUE  --:--   --:--
   WED  --:--   --:--
   THU  --:--   --:--
   FRI  --:--   --:--
   SUN  07:30   12:00   T01:C01
 ▶ SUN  13:00   17:30   T02:C01
   ALL  --:--   --:--
                          ⟳ RETURN
```
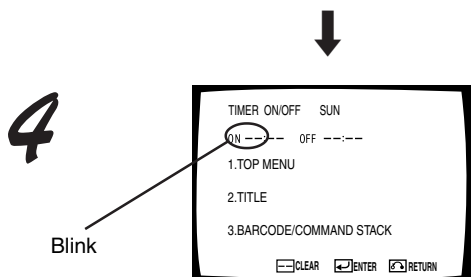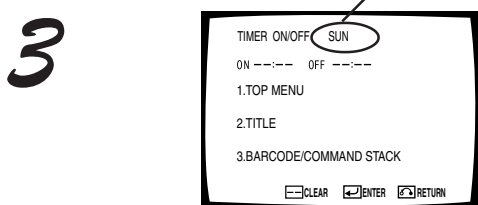
List display

Example 2)

```
00–04–29 SAT  08:15.00 (1/3)
               ON     OFF
   MON  --:--   --:--
   TUE  --:--   --:--
   WED  --:--   --:--
   THU  --:--   --:--
   FRI  --:--   --:--
   SAT  --:--   --:--
   SUN  --:--   --:--
 ▶ ALL  07:30   17:30   T01:C01
                          ⟳ RETURN
```

List display

Example 3)

```
00–04–29 SAT  08:15.00 (1/3)
               ON     OFF
   MON  --:--   --:--
   TUE  --:--   --:--
   WED  --:--   --:--
   THU  --:--   --:--
   FRI  --:--   --:--
   SAT  --:--   --:--
 ▶ SUN  --:--   07:30
   ALL  07:30   17:30   T01:C01
                          ⟳ RETURN
```

List display

Example 4)

```
00–04–29 SAT  08:15.00 (1/3)
               ON     OFF
   MON  23:00   --:--   T01:C01
   TUE  --:--   02:00
   WED  --:--   --:--
   THU  --:--   --:--
   FRI  --:--   --:--
   SAT  --:--   --:--
 ▶ SUN  --:--   --:--
   ALL  --:--   --:--
                          ⟳ RETURN
```

DVD Video CD CD

Setting the power to turn on and off more than two times in the same day

Example 1)
When set as seen in Example 1, the power turns on at 7:30 a.m. on Sunday and playback begins from the first title chapter (track) 1. Then the power turns off at 12:00 noon. At 1:00 p.m. on Sunday, the power turns on again and playback begins from the second title chapter (track) 1. The power then turns off at 5:30 p.m.
In this way, the player can be set the time to turn on and off a maximum of 24 times on the same day.

DVD Video CD CD

Setting the player to turn on and off at the same time every day

Example 2)
Refer to page 48 while setting the day setting to ALL. After this is set, the time at which the player will turn on and off every day can be entered.
In Example 2, the power turns on everyday at 7:30 a.m. and playback begins from the first title chapter (track) 1. The power then turns off at 5:30 p.m.

Example 3)
As can be seen in example 2, if you want the power to turn on everyday except Sunday, set the time in the OFF column for Sunday exactly the same as the time for the ON column of ALL. Leave the time setting in the ON column for Sunday blank.

In Example 3, on Sunday the power is always off, while on the remaining days the power turns on at 7:30 a.m. and playback begins from the first title chapter (track) 1. The power then turns off at 5:30 p.m.

DVD Video CD CD

Setting the power to turn on and off in the other day

Example 4)
As can be seen in example 4, the power turns on at 11:00 p.m. on Monday and turned off at 2:00 a.m. on Tuesday (Monday midnight).

Advanced Operations

Example 5)
When the following settings are selected for the same day.
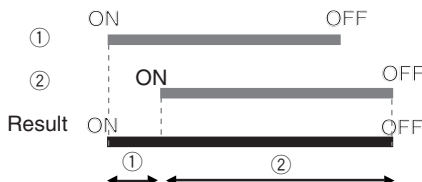
Example 6)
When the following settings are selected for the same day.

Example 7)
When the following settings are selected for the same day.

Example 8)
When the following settings are selected for the same day.

Example 9)
When the following settings are selected for ALL and SUN.
(The times set for ① ON and ② OFF are the same time.)

DVD **Video CD** **CD**

Examples of when the times set for the WEEKLY TIMER overlap

However when the ON time and the OFF times do overlap, please understand that the player will operate as indicated in the examples below.
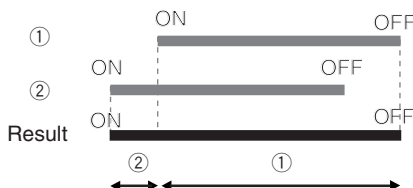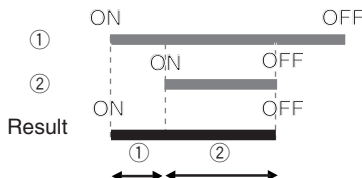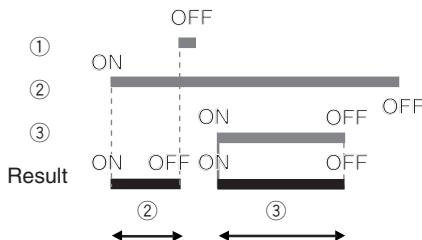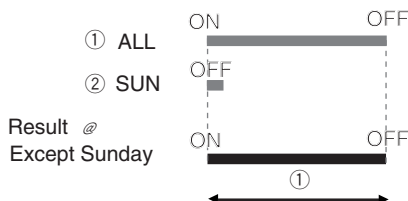
Example 5)

In ①, the player begins to operate according to the time set for ON. Next, in ② the player begins to operate according to the time set for ON. In this case, the OFF setting for ① will be ignored, and the player will turn off at the time that was set for ②.

Example 6)

In ②, the player begins to operate according to the time set for ON. Next, in ① the player beings to operate according to the time set for ON. In this case, the OFF setting for ② will be ignored, and the player will turn off at the time that was set for ①.

Example 7)

In ①, the player begins to operate according to the time set for ON. Next, in ② the player begins to operate according to the time set for ON. In this case, the player will turn off at the time that was set for ②.

Example 8)

In ②, the player begins to operate according to the time set for ON. Next, in ① the player will turn off momentarily according to the time set for OFF. Then, in ③ the player begins to operate again at the time set for ON. Lastly, the player will turn off at the time that was set for ③.

Example 9)

In ① ALL(everyday), the player begins to operate according to the time set for ON except for Sunday. These settings result in the player turning on and off according to the times set for ON and OFF in ①. The player therefore will not operate on Sunday.

Notes
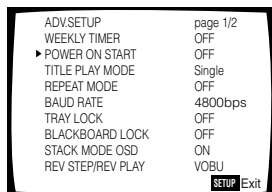When the ON and OFF times are set to the same exact time, the player will react differently according to previously designated settings.
In Example 9, when the ON and OFF times are set the same, the power is OFF and the player is in standby up until that designated time.
When the ON and OFF times are set the same, in the case when the players is ON up until that time, the OFF time set for ② will be ignored.
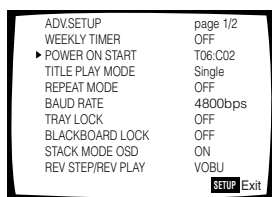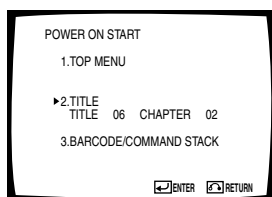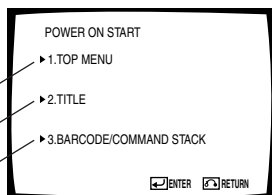
Power on start function

1-2

```
ADV.SETUP              page 1/2
WEEKLY TIMER           OFF
▶ POWER ON START       OFF
TITLE PLAY MODE        Single
REPEAT MODE            OFF
BAUD RATE              4800bps
TRAY LOCK              OFF
BLACKBOARD LOCK        OFF
STACK MODE OSD         ON
REV STEP/REV PLAY      VOBU
                       SETUP Exit
```

3

In the case of 1
In the case of 2
In the case of 3

```
POWER ON START
▶ 1.TOP MENU

▶ 2.TITLE

▶ 3.BARCODE/COMMAND STACK

                  ⏎ ENTER   RETURN
```

```
POWER ON START
  1.TOP MENU

▶ 2.TITLE
     TITLE  06  CHAPTER  02

  3.BARCODE/COMMAND STACK

                  ⏎ ENTER   RETURN
```

↓

```
ADV.SETUP              page 1/2
WEEKLY TIMER           OFF
▶ POWER ON START       T06:C02
TITLE PLAY MODE        Single
REPEAT MODE            OFF
BAUD RATE              4800bps
TRAY LOCK              OFF
BLACKBOARD LOCK        OFF
STACK MODE OSD         ON
REV STEP/REV PLAY      VOBU
                       SETUP Exit
```

Selecting the special title and chapter

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

DVD   Video CD   CD

Setting the power on start function

1. **Move the ▶ (pointer) to "POWER ON START" by pressing ▲ or ▼.**

2. **Set it to ON by pressing ◄ or ►.**

3. **Press ENTER.**

● The POWER ON START setting screen is displayed.

> **1.TOP MENU:**
> **Playing from the top menu screen.**
> **2.TITLE:**
> **Playing the specified title and chapter.**
> **3.BARCODE/COMMAND STACK:**
> **Recalling and executing the Barcode/Command stack groups in memory.**
> ● Select one of the above with ▲ **or** ▼, and press ENTER

1. Playing the top menu

● Move the ▶ (pointer) to **1. TOP MENU** and press ENTER.

2. Playing the specified title and chapter

● Move the ▶ (pointer) to **2. TITLE** and press ENTER.

Example)   To begin playback with Chapter 2 of Title 6

> **A: Press** 0 → 6 → NEXT ⏭ → 0 → 2 → NEXT ⏭ .
> **B: Press** ▲ **or** ▼ **to select 06 and press** ENTER **item to start the setting of the next set of figures. Now press** ▲ **or** ▼ **to select 02 and press** ENTER.

NOTE

● *When setting tracks on a CD or Video CD, please enter the track number in the CHAPTER in the above setting. At this time TITLE and BARCODE/COMMAND STACKs*

> **You can set the POWER ON START FUNCTION with the mouse as well as with the remote control.**
>
> ● Where 👆 is displayed, clicking with the left mouse button lets you change selections or settings.
> ● Each time you click on a number with the left mouse button, it increases by 1. Each time you click on a number with the right mouse button, it decreases by 1.

settings will not operate.

Power on start function

```
POWER ON START
  1.TOP MENU

  2.TITLE

▶ 3.BARCODE/COMMAND STACK
   GROUP   005

              ⏎ENTER   ↩ RETURN
```

```
ADV.SETUP              page 1/2
WEEKLY TIMER           OFF
▶ POWER ON START       GROUP 005
TITLE PLAY MODE        Single
REPEAT MODE            OFF
BAUD RATE              4800bps
TRAY LOCK              OFF
BLACKBOARD LOCK        OFF
STACK MODE OSD         ON
REV STEP/REV PLAY      VOBU
                     SETUP Exit
```
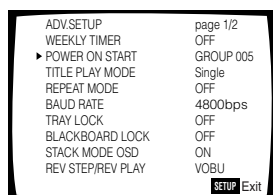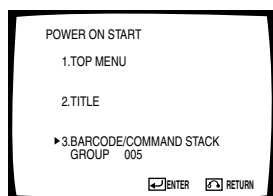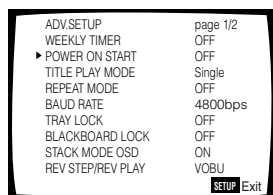
Setting the Barcode/Command stack

● Select ENTER on the screen to enter the setting and exit the screen. Select RETURN to cancel the setting and return to the previous screen.

```
ADV.SETUP              page 1/2
WEEKLY TIMER           OFF
▶ POWER ON START       OFF
TITLE PLAY MODE        Single
REPEAT MODE            OFF
BAUD RATE              4800bps
TRAY LOCK              OFF
BLACKBOARD LOCK        OFF
STACK MODE OSD         ON
REV STEP/REV PLAY      VOBU
                     SETUP Exit
```

For your reference
Memorized data is not erased even if AC power cord is unplugged.

3. Recalling and executing the Barcode/Command stack groups in memory

● Move the ▶ (pointer) to 3. **BARCODE/COMMAND STACK** and press ENTER.

Example) To execute Barcode/Command stack group 5

```
A: Press  5  → NEXT ▶▶|.

B: Press ▲ or ▼ to select 005 and
   press ENTER.
```
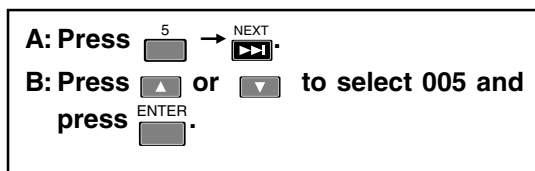
● The ADV SETUP menu setup screen is displayed again, in which the **POWER ON START** setting is shown. Now the setting of the operation to be performed at power ON is complete.

NOTE

With a disc with which playback starts automatically, the operation may differ from the setting.

DVD Video CD CD

Setting to turn on player power only

When selecting a title, enter a title which is not on the disc.
Example: Enter title 99.

DVD Video CD CD

Turning off the POWER ON START FUNCTION

*1.***On the ADV SETUP menu screen, move the ▶ (pointer) to POWER ON START with the remote control unit's ▲ or ▼ and select OFF with the remote control unit's ◄ or ►.**

Setting is possible by the mouse instead of the remote control. When the ▶ pointer is on MENU, click left button, ADV. SETUP menu is disappeared.

Barcode/Command stack function

This player can be used as follows using the Barcode stack/Command stack function

- Commands in the barcode book included with the disc can be memorized in the player in advance. (Barcode stack function.)
- Barcodes can be set using the provided remote control for discs that do not have barcodes, or for commands that you want to use that are not provided with barcodes. (Command stack function.)
- The remote control can be used for recall and successive execution or step by step execution of memorized content.

> ### NOTE:
> In *the case of laser barcode compatible discs, barcodes for industrial LD use can be used as is (please check that such discs include the* $\mathbb{LB}_2$ *mark). Use of the LB barcode sheet for* $\mathbb{LB}_2$ *unmarked discs is not possible.*
>
> ### NOTE:
> *The Barcode stack/Command stack function will not operate with CD or Video CDs.*

NOTE:
- The maximum number of steps that can be memorized in the player is 300 steps including video blackboards.
- Memorized data is not erased even if power to the unit is switched OFF.

DVD

Basic usage

How to use the barcode stack/command stack function is indicated as follows:
Details of those settings, refer to the pages after "➡".

1. **Display the barcode stack/command stack setup screen with the remote control ➡Page 54**
2. **Input the barcode with the barcode reader and transmit to player ➡Page 55**
   - Input can also be done with the remote control unit.
     In the case of LaserBarcode compatible discs ➡ **page 59**
     In the case of regular DVD discs ➡ **Page 54-58**
3. **Repeat step 2 in the desired playback order.**
4. **When input is finished, store in the player's memory ➡Page 60**
5. **Execution ➡Page 69, 70**

DVD

Advanced usage

With the barcode stack/command stack function of this unit, groups can be divided and memorized without influencing previously input commands.

This is convenient for separate memorization of contents of more than one disc, or when one player is being jointly used by many people.

To register a group separate to the already previously memorized content

1. **Register a new group ➡Page 62**
   "GROUP 002" on the top right of the barcode stack/command stack input screen is the group number that will be memorized.
   As the group number will be important for execution, please make a note of it so that you do not forget it.
2. **Input the barcode with the barcode reader and transmit to player ➡Page 55**
   - Input can also be done with the remote control unit.
     In the case of laser barcode compatible discs
     ➡ **Page 59**
     In the case of regular DVD discs ➡ **Page 54-58**
3. **Repeat step 2 in the desired playback order.**
4. **When input is finished, store in the player's memory ➡Page 60**
5. **Execution ➡Page 69, 70**
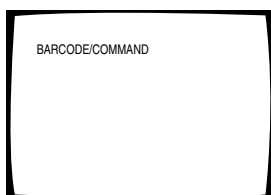   At this time please select the group number that was noted in step 1.

NOTE:
Commands stored in the player's memory can be grouped together or divided ➡ **Page 65-68**.
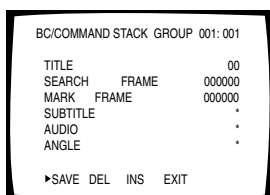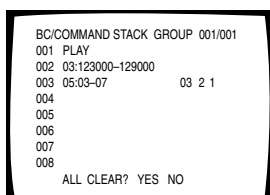Please note, however, that the order of commands can not be changed.

Advanced Operations

Barcode/Command stack setting

The player can store commands input using LASERBARCORD and DVD barcodes. The stored commands can be recalled for either successive or step-by-step execution.

Memorized data is not erased even if AC power cord is Unplugged.

1

Barcode/Command screen

```
BARCODE/COMMAND
```

DVD

Displaying the Barcode/Command stack screen

1. Press MEMORY .

● "BARCODE/COMMAND" is displayed.

NOTE
The system cannot enter this mode during display of the player control panel.

2. Press ENTER .

● The Barcode/Command Stack screen is displayed.
● If barcodes have already been input, their data are shown in the screen.
  Select whether barcodes are to be input by erasing existing barcodes or by adding them to the existing barcodes.
● To input new barcodes from the beginning, select "YES" with ◄ or ► and press ENTER .
● To add new barcodes to existing barcodes, select "NO" with ◄ or ► and press ENTER .
● Press ENTER to display the Barcode/Command Stack Input screen.
● When barcodes have not been input, the Barcode/Command Stack input screen will be displayed.

2

```
BC/COMMAND STACK GROUP 001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
        ALL CLEAR?  YES  NO
```

↓

```
BC/COMMAND STACK GROUP 001: 001

TITLE                          00
SEARCH    FRAME            000000
MARK    FRAME             000000
SUBTITLE                        *
AUDIO                           *
ANGLE                           *

▶SAVE  DEL  INS  EXIT
```

● The setting procedure of this screen will be described in the subsequent pages.
● Barcode/Command Stacks can be set directly using a barcode reader (optional) or set using the remote control unit.

1

2
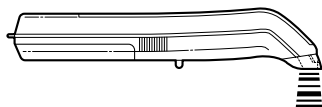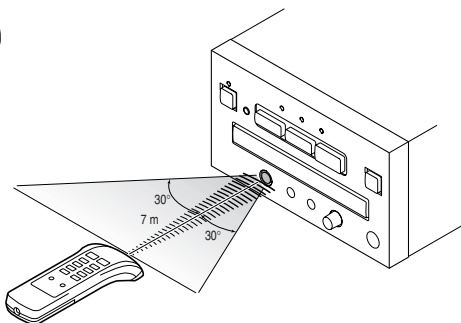
Direct setting using a barcode reader

1. **Read a barcode with a barcode reader.**
2. **Send it to the player.**

Example 1) Read "PLAY" and send it.
Example 2) Read "Play Title 8 Chapters 5 to 12 with Subtitle 3, Audio 2 and Angle 1" and send it.

DVD

Setting using the remote control unit

Five commands including Play ▶, Pause **II**, ◀**II** Still/Step **II**▶ and Stop ■ and WAIT and GO TO GROUP can be set using the remote control unit.

The chapter search, chapter play, frame search and frame segment play* commands can also be set using the remote control unit.

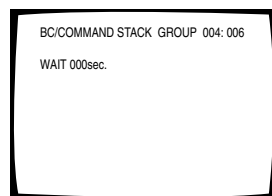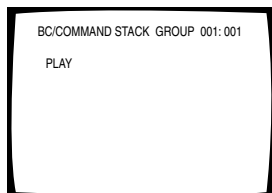* Frame segment play is to play between two specific frames.

Press TITLE/CHP FRM/TIME **.**

● The TITLE number will blink and the input mode will be selected.

Example 1) To set "Play"

BC/COMMAND STACK GROUP 001: 001

PLAY

> **Press** PLAY ▶ **.**
>
> ● The Barcode/Command Stack Input screen shows "PLAY" and increments to the next Input screen.

Example 2) enter the wait time

BC/COMMAND STACK GROUP 004: 006

WAIT 000sec.

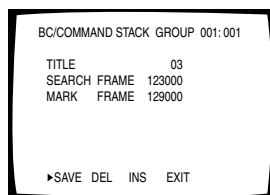> **1. Press and hold** PAUSE **II** **.**
>
> ● "WAIT 000 sec" appears on the screen.
>
> **2. Use the number buttons to enter the wait time in seconds.**
>
> ● The maximum time value that can be entered is 999
>
> **3. Press** NEXT ▶▶**I** **.**
>
> (completes the procedures)

Advanced Operations

Barcode/Command stack setting

BC/COMMAND STACK GROUP 001: 001

TITLE   03
SEARCH FRAME   123000
MARK   FRAME   129000

▶SAVE DEL INS EXIT

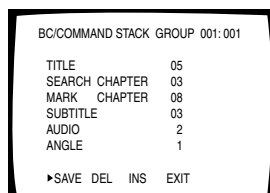Display when the example on
the right is input

Note
The difference between search frames and mark frames can-
not be set to 24 frames or less. The entry must be 25 frames
or greater.

Example 3) To "Play Title 3 Frames 123000 to 129000"

1. Press TITLE/CHP FRM/TIME **.**
- The TITLE number will blink.

2. Press 3 → NEXT **.**
- Title 3 is set, and the mode switches to Frame Input.

3. Press 1 → 2 → 3 → 0 → 0 → 0 → NEXT **.**
- This sets the start frame number.
- If the operation up to the present has been performed during playback, the input start frame is searched now.

4. Press 1 → 2 → 9 → 0 → 0 → 0 → NEXT **.**
- This sets the end frame number.
- If the operation in steps 3 and 4 is performed during playback, you can press ENTER in place of specifying the frame number in steps 3 and 4 above. In this case, the frame number being played is input auto-matically.

BC/COMMAND STACK GROUP 001: 001

TITLE   05
SEARCH CHAPTER   03
MARK   CHAPTER   08
SUBTITLE   03
AUDIO   2
ANGLE   1

▶SAVE DEL INS EXIT

Display when the example on
the right is input

For your reference
To play chapter 7 till the end as shown in Example 4), enter "8", obtained by adding 1 to 7, in MARK CHAPTER.

Example 4) To "Play Title 5 Chapters 3 to 7 with Subtitle 3, Audio 2 and Angle 1"

1. Press TITLE/CHP FRM/TIME **.**
- The TITLE number will blink.

2. Press 5 → NEXT **.**
- This sets title 5 and the chapter input mode starts.

3. Press TITLE/CHP FRM/TIME **to select SEARCH CHAPTER.**
- This item sets the chapter number where playback should start.
- Each press switches "CHAPTER" and "FRAME" al-ternately.

4. Press 3 → NEXT **.**
- This sets the start chapter number.

5. Press 8 → NEXT **.**
- This sets the end chapter number.

6. Press 3 → NEXT **.**
- This sets Subtitle 3.

7. Press 2 **. (Do not press** NEXT **.)**
- This sets Audio 2.

8. Press 1 **. (Do not press** NEXT **.)**
- This sets Angle 1. Now go to the next step.

Item display

```
BC/COMMAND STACK GROUP 001: 001

TITLE                        00
SEARCH      FRAME        000000
MARK    FRAME            - - - - - -
SUBTITLE                     01
AUDIO                         2
ANGLE                         3

▸SAVE  DEL  INS  EXIT
```

Press $\underset{\square}{\text{DISPLAY}}$ switches over to the following display

List display

```
BC/COMMAND STACK GROUP 001/ 001
001▸SUBTITLE 01  AUDIO 2  ANGLE 3
002  03:10000–15000
003
004
005
006
007
008
▸SAVE  DEL  INS  EXIT
```

Example 5) To input the command for setting Subtitle 1, Audio 2 and Angle 3

1. When the word TITLE is blinking, enter "00" in the TITLE.
- (Do not press $\underset{\text{►►}}{\text{NEXT}}$.).

2. Press $\underset{\square}{\text{SUBTITLE}}$ while the TITLE digits are blinking.

3. When the SUBTITLE digits start to blink, press $\underset{\square}{^1}$ then $\underset{\text{►►}}{\text{NEXT}}$.

4. When the AUDIO digit starts to blink, press $\underset{\square}{^2}$.

5. When the ANGLE digital starts to blink, press $\underset{\square}{^3}$.

- With a play command that specifies the start and end frames, it is not possible to set the subtitle, audio and angle simultaneously. However, by placing the subtitle, audio and angle setting command as described above before the frame section play command, the section playback can be executed with the specified setting.

The input as shown above allows to play title 3 frames 10000 to 15000 by setting Subtitle 1, Audio 2 and Angle 3.

With commands other than the frame section play command, such as the frame search, chapter search and chapter section play commands, the specified setting is valid within each command.

1.

```
BC/COMMAND STACK  GROUP 001: 001

TITLE                        03
SEARCH      FRAME        123000
MARK    FRAME            129000




▸SAVE  DEL  INS  EXIT
```

2.

```
BC/COMMAND STACK  GROUP 001: 002

TITLE                        00
SEARCH      FRAME        000000
MARK    FRAME            - - - - - -
SUBTITLE                     *
AUDIO                         *
ANGLE                         *
▸SAVE  DEL  INS  EXIT
```

↓

```
BC/COMMAND STACK  GROUP 001: 002

REPEAT
```

Example 6) To repeat "Play Title 3 frames 123000 to 129000" in Example 3

1. Perform steps 1 to 4 in Example 3.
- The barcode/command stack input screen of the next step appears.

2. Press $\underset{\square}{\text{RPT A-B}}$ while the TITLE number is blinking.
- The REPEAT indicator appears on the screen.

Advanced Operations

**Example 7) Inputting a command to jump to another group.**

```
BC/COMMAND STACK  GROUP  004: 003

GO  TO  GROUP - 000
```
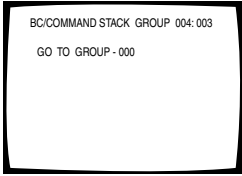
1. **When the TITLE number is flashing, press** $\boxed{}$ RECALL **.**
2. **The display changes to that indicated in the figure on the left. Input the number of the group you want to jump to, and press** $\boxed{}$ NEXT ▶▶|**.**

To change a previously input "GO TO GROUP" command

group number, press $\boxed{}$ RECALL during Detailed or List display, and

input the new number.

Using this command enables consecutive jumping to different groups.

< Conceptual representation >

GROUP - 001		GROUP - 002		GROUP - 004
⋮	→	⋮	→	⋮
GO TO GROUP - 002		GO TO GROUP - 004		GO TO GROUP - 010
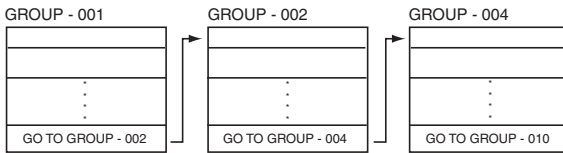
You can also create standby display groups. If you do this, you return to the standby display after jumping to another group.

< Conceptual representation >

```
              GROUP - 001
          ┌──────────────────┐ ◀──────┐
          │                  │        │
          │        ·         │        │
          │        ·         │        │
          │        ·         │        │
          │     REPEAT       │        │
          └──────────────────┘────────┘
              Jump
                 │
                 ▼
          GROUP - 002
          ┌──────────────────┐   example
          │                  │   RECALL 002 + PLAY
          │                  │        or
          │        ·         │   External option switch
          │        ·         │   Group 002
          │        ·         │
          │ GO TO GROUP - 001│──────────┐
          └──────────────────┘          │
                 │                       │
                 ▼                       │
          GROUP - 003                    │
          ┌──────────────────┐   example │
          │                  │   RECALL 003 + PLAY
          │                  │        or
          │        ·         │   External option switch
          │        ·         │   Group 003
          │        ·         │
          │ GO TO GROUP - 001│──────────┤
          └──────────────────┘          │
                 │                       │
                 ▼                       │
          GROUP - 004                    │
          ┌──────────────────┐   example │
          │                  │   RECALL 004 + PLAY
          │                  │        or
          │        ·         │   External option switch
          │        ·         │   Group 004
          │        ·         │
          │ GO TO GROUP - 001│──────────┘
          └──────────────────┘
```
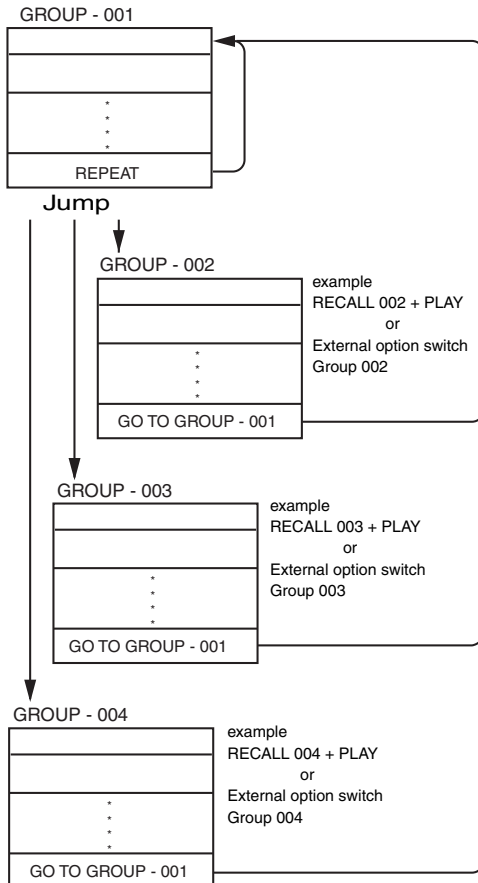
DVD

Setting the Subtitle, Audio and Angle

SUBTITLE

- "00" turns the screen color to the color specified in "Background color" in the GUI menu and makes the played image invisible.
- "01" to "32" displays the corresponding subtitle.
- "33" plays with Subtitle OFF.
- "34" is used to make the played image made invisible with "00" visible again.
- "99" retains the previous condition. This is used to change other setting than SUBTITLE while maintaining the SUBTITLE setting the same.
- "35" to "98" are invalid.

AUDIO

- "0" plays image with Audio OFF.
- "1" to "8" selects and plays the corresponding audio.
- "9" retains the previous condition.

ANGLE

- "1" to "8" selects and plays the corresponding angle.
- "9" retains the previous condition.
- "0" selects and plays Angle 9.

NOTE

- *When "retain the previous condition" is selected, "✱" is displayed in the input screen.*
- *The barcode/command stack cannot be executed if a value that does not exist in the disc is input.*

DVD

To use only the chapter search or frame search

In item **"MARK CHAPTER"** or **"MARK FRAME"**, simply press

$\boxed{}$ NEXT ▶▶| without setting anything.

A still image is displayed after search.

DVD

To change a value during input

Press the numeric button of the correct number (including 0).

To return to a previous setting point, press $\boxed{}$ PREV |◀◀.

DVD

To cancel input in the middle

Move the ▶ (pointer) to "EXIT" by pressing the cursor button

$\boxed{}$ ▶ (right direction) and press $\boxed{}$ ENTER.

Setting of laserbarcode compatible discs

```
BC/COMMAND STACK  GROUP 001: 001

TITLE            LD
SEARCH FRAME     01500
MARK   FRAME     01800
VIDEO            0
AUDIO            3
```

In case of the setting as right

NOTE:

Pressing TITLE/CHP FRM/TIME after step 2 will select the chapter input

mode. See page 56 for the input methods of SEARCH
CHAPTER and MARK CHAPTER.

**Example)   Playback of "analog stereo" audio channel
from frame 1500 to 1800 without video.**

1. Press TITLE/CHP FRM/TIME

● The TITLE number will blink.

2. Press NEXT ▶▶ **to display LD.**

● Be sure to set the laser barcode compatible disc
command to the TITLE LD display.

3. Press 1 → 5 → 0 → 0 → NEXT ▶▶ .

● The start frame number is entered.
● If the procedure up until this point has been done
during playback, the start frame that was input is
searched for.

4. Press 1 → 8 → 0 → 0 → NEXT ▶▶ .

● The stop frame number is entered.

5. As the VIDEO number will blink,

press 0 .

● The playback picture disappears.

6. As the AUDIO number will blink,

press 3 .

● Audio will be entered and the next step proceeded to.

Video, Audio setup

VIDEO:
● Inputting 1 selects normal video output.
● Inputting 0 selects the background color set on the GUI
menu and cancels the playback picture.
● Inputting 9 maintains the previous mode. Input when you
want to leave the VIDEO setting as is and change other
settings.
● 2 to 8 are invalid.

AUDIO:
On laserbarcode compatible discs, laser disc digital audio
and analog audio are converted and recorded in the DVD
format.
Audio can be selected as follows.
● Inputting 0 selects the Audio OFF playback mode.
● Inputting 1 selects the "Analog audio 1/L" playback mode.
● Inputting 2 selects the "Analog audio 2/R" playback mode.
● Inputting 3 selects the "Analog audio" stereo mode.
● Inputting 5 selects the "Digital audio 1/L" mode.
● Inputting 6 selects the "Digital audio 2/R" mode.
● Inputting 7 selects the "Digital audio" stereo mode.
● Inputting 9 maintains the previous mode.
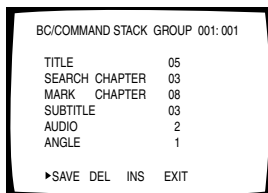● 4 and 8 are invalid.

NOTE:
*When "Maintaining previous mode" is selected "✳" is dis-
played on the input screen.*

Advanced Operations

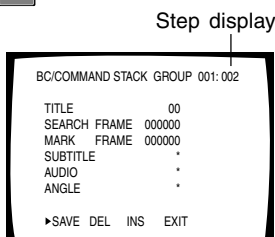**59**
En

Barcode/Command stack setting

Saving Barcode/ Command stack

When input has been completed to the end using the example operation, the barcode stack/command stack input screen for the next step appears in a few seconds.

```
BC/COMMAND STACK GROUP 001: 001

TITLE                    05
SEARCH  CHAPTER          03
MARK      CHAPTER        08
SUBTITLE                 03
AUDIO                     2
ANGLE                     1

▶SAVE  DEL   INS   EXIT
```

When this screen appears, press ◀ or ▶ to move ▶

(pointer) to SAVE and press ENTER.

Step display

● The display disappears and the input information is saved.

```
BC/COMMAND STACK GROUP 001: 002

TITLE                    00
SEARCH  FRAME      000000
MARK      FRAME      000000
SUBTITLE                 *
AUDIO                    *
ANGLE                    *

▶SAVE  DEL   INS   EXIT
```

The display disappears.

NOTES:
● The input information is not saved if ▶ (pointer) is moved to
SAVE and ENTER is pressed before the bar code stack/command stack input screen for the next step appears.
● The input information is not saved if ▶ (pointer) is moved to
EXIT and ENTER is pressed.

To delete a previously imput Barcode/ Command stack

*1.***Press** MEMORY.

● "BARCODE/COMMAND" is displayed.

*2.***Press** ENTER.

● The Barcode/Command Stack screen is displayed.

*3.***Select "NO" with ◀ or ▶ and press** ENTER.

● The Barcode/Command Stack Input screen is displayed

when ENTER is pressed.
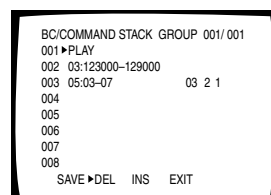
*4.***Press** DISPLAY.

● The list display appears.

*5.***Move the ▶ (pointer) to "DEL" by pressing the cursor button ▶ (right direction).**
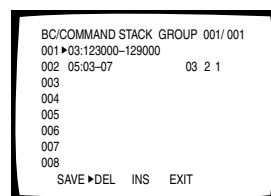
*6.***Select the step to be deleted by pressing ▲ or ▼ .**

*7.***Press** ENTER.

● The selected step is deleted and the numbers of the subsequent steps are decremented by 1.

```
BC/COMMAND STACK GROUP 001/ 001
001 ▶PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
   SAVE ▶DEL   INS   EXIT
```

*8.***Move the ▶ (pointer) to "SAVE" by pressing ◀ and press** ENTER.

```
BC/COMMAND STACK GROUP 001/ 001
001 ▶03:123000–129000
002  05:03–07              03 2 1
003
004
005
006
007
008
   SAVE ▶DEL   INS   EXIT
```
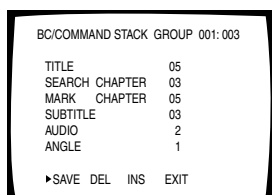
IMPORTANT:
Even if you have come to step 7 in the above deletion procedure, you can still abort deletion by moving the ▶ (pointer) to
"EXIT" by pressing the cursor button ▶ (right direction) then
pressing ENTER*. The deletion is entered in memory when the*
"SAVE" operation is performed in step 8.
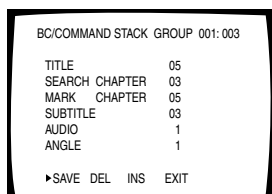
Correcting a previously input Barcode/Command Stack

Example) **To change the Audio setting of step 003 from 2 to 1**

*1.*Press $\overset{\text{MEMORY}}{\square}$.

● "BARCODE/COMMAND" is displayed.

*2.*Press $\overset{\text{ENTER}}{\square}$.

● The Barcode/Command Stack screen is displayed.

*3.*Select "NO" with $\boxed{\triangleleft}$ or $\boxed{\triangleright}$ and press $\overset{\text{ENTER}}{\square}$.

● The Barcode/Command Stack Input screen is displayed when $\overset{\text{ENTER}}{\square}$ is pressed.

*4.*Press $\overset{\text{DISPLAY}}{\square}$

● The list display appears.

*5.*Select "003 ▶ " by pressing $\boxed{\triangle}$ or $\boxed{\triangledown}$.

*6.*Press $\overset{\text{TITLE/CHP}}{\underset{\text{FRM/TIME}}{\square}}$.

● This initiates the Barcode/Command Stack input mode.

```
BC/COMMAND STACK GROUP 001: 003

TITLE               05
SEARCH CHAPTER      03
MARK    CHAPTER     05
SUBTITLE            03
AUDIO                2
ANGLE                1

▶SAVE  DEL   INS   EXIT
```

*7.*Press $\overset{\text{NEXT}}{\boxed{\triangleright\triangleright}}$ 4 times to select item "AUDIO".

*8.*Press $\overset{1}{\square}$.

```
BC/COMMAND STACK GROUP 001: 003

TITLE               05
SEARCH CHAPTER      03
MARK    CHAPTER     05
SUBTITLE            03
AUDIO                1
ANGLE                1

▶SAVE  DEL   INS   EXIT
```

*9.*Press $\overset{\text{NEXT}}{\boxed{\triangleright\triangleright}}$.

● The next step's Barcode/Command Input screen is displayed.

*10.*Move the ▶ (pointer) to "SAVE" by pressing $\boxed{\triangleleft}$ and press $\overset{\text{ENTER}}{\square}$.

NOTE:

To save the corrected information, press $\overset{\text{NEXT}}{\boxed{\triangleright\triangleright}}$ repeatedly until the last item flashes (ANGLE in this example).

Press $\overset{\text{NEXT}}{\boxed{\triangleright\triangleright}}$ one more time to move to the page for the next step.

In this "next step", move ▶ (pointer) to SAVE and press $\overset{\text{ENTER}}{\square}$ to save data.

The corrected information is not saved if ▶ (pointer) is moved to SAVE and $\overset{\text{ENTER}}{\square}$ is pressed before the end of correction (in the middle of the step being corrected).

Adding a step in a previously input Barcode/Command Stack

*1.*Perform steps 1 to 4 of "Correcting a previously input Barcode/Command Stack".

*2.*Select the step where a new step is to be inserted by pressing $\boxed{\triangle}$ or $\boxed{\triangledown}$.

*3.*Move the ▶ (pointer) to "INS" by pressing $\boxed{\triangleleft}$ or $\boxed{\triangleright}$ and press $\overset{\text{ENTER}}{\square}$.

● This inserts a new step before the selected step and the numbers of subsequent steps are incremented by 1.

```
BC/COMMAND STACK GROUP 001/ 001
001  PLAY
002 ▶
003  03:123000–129000
004  05:03–07              03 2 1
005
006
007
008
   SAVE  DEL  ▶INS    EXIT
```
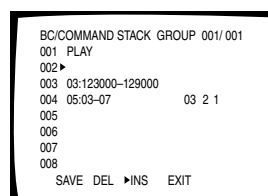
*4.*Press $\overset{\text{TITLE/CHP}}{\underset{\text{FRM/TIME}}{\square}}$.

● This initiates the Barcode/Command Stack input mode.

*5.*Set a step in the same way as "Barcode Stack/Command Stack settings". (See page 55- 59)

*6.*Move the ▶ (pointer) to "SAVE" by pressing $\boxed{\triangleleft}$ and press $\overset{\text{ENTER}}{\square}$.

Advanced Operations

Grouping some Barcode/Command Stacks

1

```
BARCODE/COMMAND
```

2

```
BC/COMMAND STACK GROUP 001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
        ALL CLEAR? YES NO
```

3

```
BC/COMMAND STACK GROUP 001: 004

TITLE                          00
SEARCH       FRAME         000000
MARK         FRAME         ------
SUBTITLE                        *
AUDIO                           *
ANGLE                           *

▶SAVE  DEL  INS  EXIT
```

4

```
BC/COMMAND STACK GROUP 001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004 ▶
005
006
007
008
▶SAVE  DEL  INS  EXIT
```

5

```
BC/COMMAND STACK GROUP 002: 001

TITLE                          00
SEARCH       FRAME         000000
MARK         FRAME         ------
SUBTITLE                        *
AUDIO                           *
ANGLE                           *

▶SAVE  DEL  INS  EXIT
```

DVD

Methods of Grouping

Grouping some Barcode/Command Stacks

A group can be formed with several Barcode/Command Stacks, and more than one group can be formed and stored. When executing a group of commands, select a group from the stored groups and execute them either consecutively or step by step. It is also possible to divide or delete a group.

The following procedure consists of inserting a group delimiter after a group of barcode commands.

Inserting a group

1. Press MEMORY.
- "BARCODE/COMMAND" is displayed.

2. Press ENTER.
- The Barcode/Command Stack screen is displayed.

3. Select "NO" with ◄ **or** ► **and press the** ENTER.
- The Barcode/Command Stack Input screen is displayed when the ENTER is pressed.

4. Press DISPLAY.
- The list display appears.
- Make sure that the ▶ (pointer) is located at the step immediately following the last entry.

5. Press NEXT.
- The input screen for the first step of the next Barcode/Command Stack group appears.
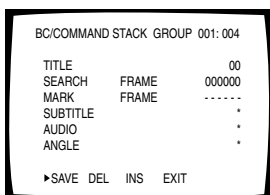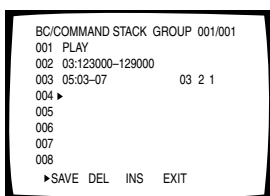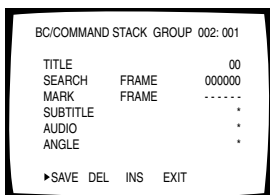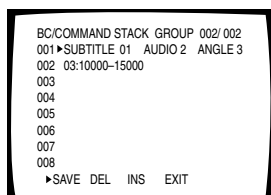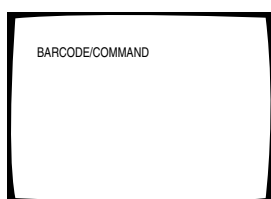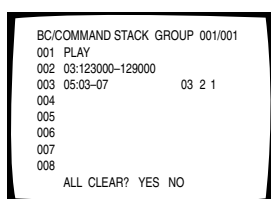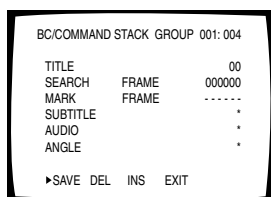- The Barcode/Command Stacks of the next group can be set from here.
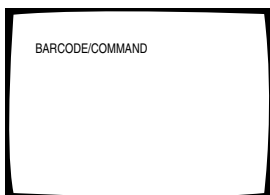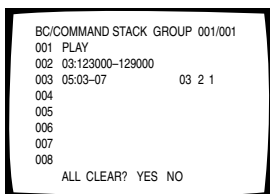
Switching the Barcode/ Command Stack group
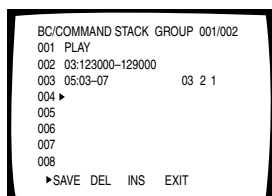
```
BC/COMMAND STACK GROUP 001/002
001 PLAY
002 03:123000–129000
003 05:03–07                03 2 1
004 ▶
005
006
007
008
  ▶SAVE  DEL  INS  EXIT
```

NEXT
▶▶|

PREV
|◀◀

```
BC/COMMAND STACK GROUP 002/ 002
001 ▶SUBTITLE 01  AUDIO 2  ANGLE 3
002 03:10000–15000
003
004
005
006
007
008
  ▶SAVE  DEL  INS  EXIT
```

1. Press _{MEMORY} ⬚.
- "BARCODE/COMMAND" is displayed.

2. Press _{ENTER} ⬚.
- The Barcode/Command Stack screen is displayed.

3. Select "NO" with ◀ or ▶ and press the _{ENTER} ⬚.
- The Barcode Input screen is displayed when the button is pressed.

4. Press _{DISPLAY} ⬚.
- The list display appears.

5. Press _{PREV} |◀◀ _{NEXT} ▶▶|.
- Pressing _{NEXT} ▶▶| switches over to the next group.
- Pressing _{PREV} |◀◀ switches over to the previous group.

Deleting a group

1

```
BARCODE/COMMAND
```

1. Press _{MEMORY} ⬚.
- "BARCODE/COMMAND" is displayed.

2

```
BC/COMMAND STACK GROUP 001/001
001 PLAY
002 03:123000–129000
003 05:03–07                03 2 1
004
005
006
007
008
    ALL CLEAR?  YES  NO
```

2. Press _{ENTER} ⬚.
- The Barcode/Command Stack screen is displayed.

3

```
BC/COMMAND STACK GROUP 001: 004

TITLE                        00
SEARCH      FRAME        000000
MARK        FRAME        - - - - - -
SUBTITLE                      *
AUDIO                         *
ANGLE                         *

  ▶SAVE  DEL  INS  EXIT
```

3. Select "NO" with ◀ or ▶ and press _{ENTER} ⬚.
- The Barcode Input screen is displayed when _{ENTER} ⬚ is pressed.

Advanced Operations

Grouping some Barcode/Command Stacks

4

```
BC/COMMAND STACK GROUP 001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004 ▶
005
006
007
008
  ▶SAVE  DEL   INS   EXIT
```

4. Press ☐^{DISPLAY}.

- The list display appears.

5

```
BC/COMMAND STACK GROUP 001/ 001
001▶PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
  ▶SAVE  DEL   INS   EXIT
```

5. Select the group to be deleted by pressing
   PREV   NEXT
   ⏮   ⏭.

6

```
BC/COMMAND STACK▶GROUP 001/ 001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
  ▶ SAVE  DEL   INS   EXIT
```

6. Move the ▶ (pointer) to "GROUP" on the
   first line by pressing ▲.

7-8

```
BC/COMMAND STACK GROUP 001/ 001
001▶
002
003
004
005
006
007
008
   SAVE ▶DEL   INS   EXIT
```

7. Move the ▶ (pointer) to "DEL" by pressing
   the cursor button ▶ (right direction).

8. Press ☐^{ENTER}.

- This deletes the selected group.

9

```
BC/COMMAND STACK GROUP 001/ 001
001▶
002
003
004
005
006
007
008
  ▶SAVE  DEL   INS   EXIT
```

9. Move the ▶ (pointer) to "SAVE" by pressing
   the cursor button ▶ (right direction) and
   press ☐^{ENTER}.

IMPORTANT
Even if you have come to step 8 in the above deletion procedure, you can still abort deletion by moving the ▶ (pointer) to "EXIT" by pressing the cursor button ▶ (right direction) then pressing ☐^{ENTER}. The deletion is entered in memory when the 'SAVE" operation is performed in step 9.

1

```
BARCODE/COMMAND
```

DVD

Dividing a previously input group

*1.***Press** DISPLAY.
- "BARCODE/COMMAND" is displayed.
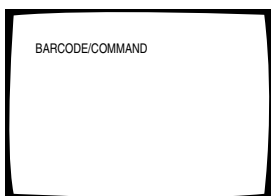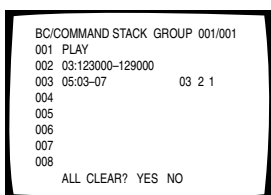
2

```
BC/COMMAND STACK  GROUP  001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
      ALL CLEAR?  YES  NO
```

*2.***Press** ENTER.
- The Barcode/Command Stack screen is displayed.

3

```
BC/COMMAND STACK  GROUP  001: 004

TITLE                        00
SEARCH      FRAME       000000
MARK        FRAME       - - - - - -
SUBTITLE                      *
AUDIO                         *
ANGLE                         *

▶SAVE  DEL   INS   EXIT
```

*3.***Select "NO" with** ◀ **or** ▶ **and press** ENTER.
- The Barcode/Command Stack Input screen is displayed
  when ENTER is pressed.

4

```
BC/COMMAND STACK  GROUP  001/001
001  PLAY
002  03:123000–129000
003  05:03–07              03 2 1
004 ▶
005
006
007
008
 ▶SAVE  DEL   INS   EXIT
```

*4.***Press** DISPLAY.
- The list display appears.

5

```
BC/COMMAND STACK  GROUP  001/ 001
001  PLAY
002 ▶03:123000–129000
003  05:03–07              03 2 1
004
005
006
007
008
 ▶SAVE  DEL   INS   EXIT
```
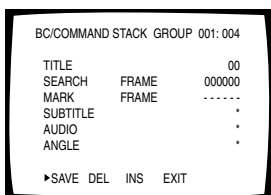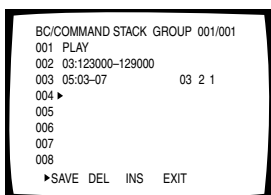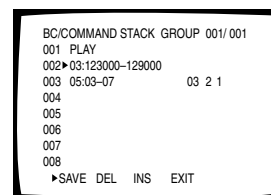
*5.***Select the step where the existing group is
to be divided by pressing** ▲ **or** ▼ **.**
- Move the ▶ (pointer) the first step of the group created
  by division.

Advanced Operations

Grouping some Barcode/Command Stacks

6

```
BC/COMMAND STACK GROUP 001/ 001
001  PLAY
002▶03:123000–129000
003  05:03–07          03 2 1
004
005
006
007
008
   SAVE  DEL  ▶INS   EXIT
```

6. Move the ▶ (pointer) to "INS" by pressing
◀ or ▶.

7

```
BC/COMMAND STACK GROUP 001/ 001
001  PLAY
002▶
003  03:123000–129000
004  05:03–07          03 2 1
005
006
007
008
   SAVE  DEL  ▶INS   EXIT
```

7. Press $\frac{\text{ENTER}}{\quad}$.
- This inserts a vacant step before the selected step and the numbers of subsequent steps are incremented by 1.

8

```
BC/COMMAND STACK GROUP 002: 001

TITLE                          03
SEARCH       FRAME      123000
MARK         FRAME      129000



  SAVE  DEL  ▶INS   EXIT
```

8. Press $\frac{\text{NEXT}}{\blacktriangleright\blacktriangleright}$.
- This divides the existing group at the vacant step.
- A new group is created. The Barcode/Command Stack Input screen of the first step of the newly created group is displayed.

9

```
BC/COMMAND STACK GROUP 002: 001

TITLE                          03
SEARCH       FRAME      123000
MARK         FRAME      129000



 ▶SAVE  DEL  INS   EXIT
```

9. Move the ▶ (pointer) to "SAVE" by pressing the cursor but-

ton ▶ (right direction) and press $\frac{\text{ENTER}}{\quad}$.
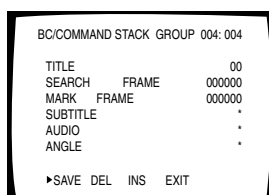
IMPORTANT
Even if you have come to step 8 in the above group proce-dure, you can still abort group by moving the ▶ (pointer) to

"EXIT" by pressing ◀ then pressing $\frac{\text{ENTER}}{\quad}$. The group is

entered in memory when the SAVE" operation is performed in step 9.

Joining two Barcode/ Command Stack groups

1
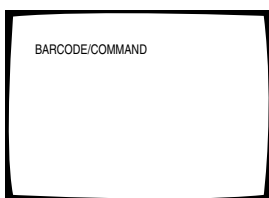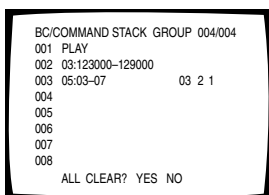
```
BARCODE/COMMAND
```
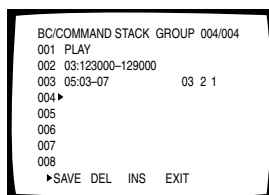
1. **Press $\overset{\text{MEMORY}}{\square}$.**

● "BARCODE/COMMAND" is displayed.

2

```
BC/COMMAND STACK GROUP 004/004
001  PLAY
002  03:123000–129000
003  05:03–07          03 2 1
004
005
006
007
008
     ALL CLEAR?  YES  NO
```

2. **Press $\overset{\text{ENTER}}{\square}$.**

● The Barcode/Command Stack screen is displayed.

3

```
BC/COMMAND STACK GROUP  004: 004

TITLE                        00
SEARCH      FRAME        000000
MARK        FRAME        000000
SUBTITLE                      *
AUDIO                         *
ANGLE                         *

▶SAVE  DEL  INS  EXIT
```

3. **Select "NO" with $\boxed{\triangleleft}$ or $\boxed{\triangleright}$ and press $\overset{\text{ENTER}}{\square}$.**

● The Barcode/Command Stack Input screen is displayed when $\overset{\text{ENTER}}{\square}$ is pressed.

4

```
BC/COMMAND STACK GROUP 004/004
001  PLAY
002  03:123000–129000
003  05:03–07          03 2 1
004▶
005
006
007
008
▶SAVE  DEL  INS  EXIT
```

4. **Press $\overset{\text{DISPLAY}}{\square}$.**

● The list display of the last group that was input is displayed.

5

```
BC/COMMAND STACK GROUP 003/ 004
001  02:000150–002050
002  06:22–23            * * *
003▶
004
005
006
007
008
▶SAVE  DEL  INS  EXIT
```
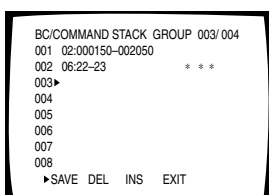
5. **Change the group with $\overset{\text{PREV}}{\boxed{\blacktriangleleft\blacktriangleleft}}$.**

● Move the ▶ (pointer) to the next step of the previously input number with $\boxed{\blacktriangle}$ or $\boxed{\blacktriangledown}$. This becomes the division point.

Advanced Operations

6

```
BC/COMMAND STACK  GROUP  003/ 004
001  02:000150–002050
002  06:22–23                    * * *
003▶
004
005
006
007
008
    SAVE ▶DEL   INS   EXIT
```

6. **Move the ▶ (pointer) to "DEL" by pressing the cursor button � (right direction).**

7

```
BC/COMMAND STACK  GROUP  003/ 003
001  02:000150–002050
002  06:22–23                    * * *
003▶PLAY
004  03:123000–129000
005  05:03–07              03 2 1
006
007
008
    SAVE ▶DEL   INS   EXIT
```

7. **Press ENTER.**
- This deletes the group delimiter and joins the current group with the next group to it.
- The numbers of the groups after the current group are decremented by 1.

8

```
BC/COMMAND STACK  GROUP  003/ 003
001  02:000150–002050
002  06:22–23                    * * *
003▶PLAY
004  03:123000–129000
005  05:03–07              03 2 1
006
007
008
  ▶SAVE   DEL   INS   EXIT
```

8. **Move the ▶ (pointer) to "SAVE" by pressing the cursor button ▸ (right direction) and press ENTER.**

IMPORTANT

Even if you have come to step 7 in the above group Joining, you can still abort group by moving the ▶ (pointer) to "EXIT" by pressing the cursor button ▸ (right direction) then pressing ENTER. The group is entered in memory when the SAVE" operation is performed in step 8.

Using a Barcode/Command Stacks
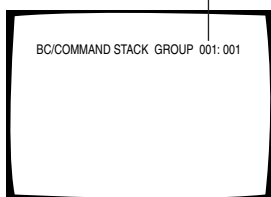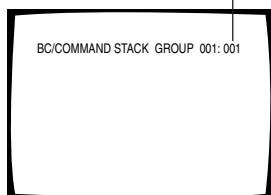
DVD

Recalling/executing barcode commands in memory

To execute a barcode command group:
Load the disc to excute them.

Switching the command group

BC/COMMAND STACK GROUP 001: 001

Recall screen

1. **Press RECALL.**

2. **Press PREV.**

3. **Input the number of the command group to be recalled/executed using the numeric buttons.**

4. **Press NEXT twice.**

● This recalls and executes the selected group.

To execute steps in a command group:
Load the disc to excute them.

1. **Press RECALL.**

Switching the command step

BC/COMMAND STACK GROUP 001: 001

Recall screen

2. **Press PREV.**

3. **Input the number of the command group to be recalled/executed using the numeric buttons.**

4. **Press NEXT.**

● To re-enter the group number, press PREV.

5. **Input the number of the step to begin execution using the numeric buttons.**

6. **Press NEXT.**

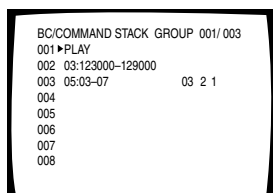● This recalls and executes the selected and subsequent steps in the selected group.

NOTES:

● Pressing REPEAT repeats the execution of the set GROUP.

● If you press STEP in place of NEXT in step 6 above, command steps will be executed step by step. After one step has been executed, press NEXT to advance to the next step. Pressing PREV allows you to return to the previous step.

NOTE
The system cannot enter this mode during display of the player control panel.

Advanced Operations

Using a Barcode/Command Stacks

BC/COMMAND STACK GROUP 001/ 003
001 ▶PLAY
002 03:123000–129000
003 05:03–07   03 2 1
004
005
006
007
008

Recalling/executing previously input barcode/command stack from the list view

1. **Press** RECALL.

2. **Press** DISPLAY.

- This displays a list of commands.

3. **Select a group by pressing** PREV NEXT.

- Select the command group containing the command(s) to be executed.

4. **Select a step by pressing** ▲ ▼.

- Select the command step to begin execution with. If the command step number is left to "001" on this step, the commands in the entire command group will be executed.

5. **Press** PLAY **or** STEP.

- Pressing PLAY starts consecutive execution.
- Pressing STEP starts step-by-step execution.

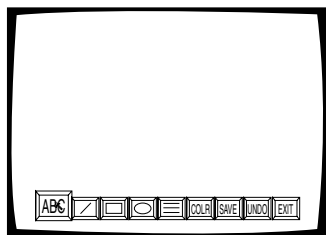**Some titles may not be able to be recalled and executed.**

Example)

The search command cannot be executed with a title that does not show the chapter, time and similar information on the screen or with a disc that is not permitted to use the search function.
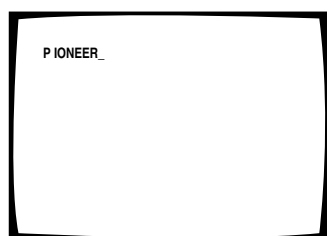
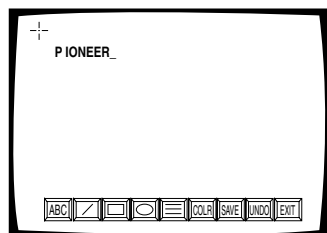# Character Input/Output drawing (DVD video blackboard)

1

2

"Y" cable

1-3

4

P IONEER_

Input "PIONEER"

5
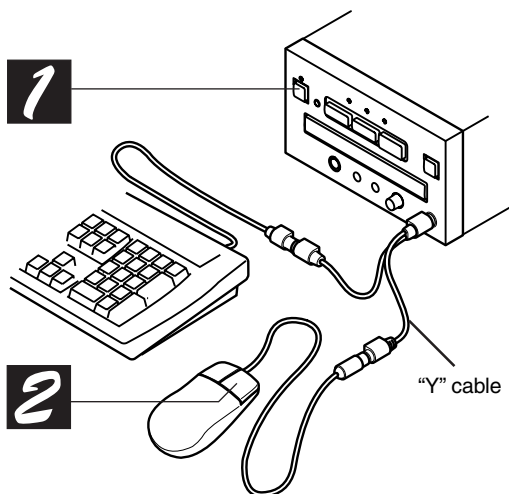
P IONEER_

The video blackboard function of this unit allows you to draw characters and pictures just like on a blackboard. The drawn characters and pictures can be displayed alone or superimposed on the disc video.

DVD

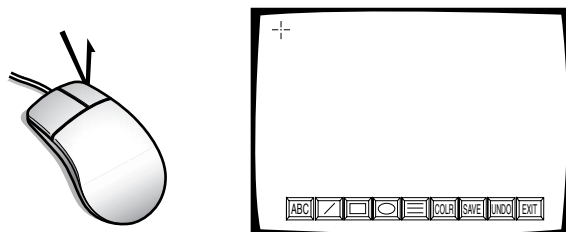## Operation using the mouse or keyboard

Connect the PS/2 mouse or PS/2 keyboard to the mouse/keyboard connector of this unit. (See page 79)

DVD

Activating the blackboard function

1 **Turn the power on.**

2 **Click the right button anytime to display the Blackboard screen.**

Blackboard screen

DVD

Inputting characters

1. **Move the cursor to [ABC] and click the mouse's left button.**

2. **Move the cursor to the position where you want to input the first character.**
 ● The cursor changes to the I cursor in the area where character input is possible.

3. **Click the mouse's left button.**
 ● "_" blinks. You can input a character from this point.

4. **Input a character.**
 ● Characters can also be input from the PC keyboard provided that this is connected.
 The PC keyboard can input characters by distinguishing the numerals, symbols and uppercase/lowercase alphabet as well as carriage returns.

5. **Click the mouse's right button after completing the input.**
 ● The Blackboard screen is displayed again.
 ● To save the characters, use the procedure in "Saving characters or pictures" on page 73.

NOTE
The system cannot enter this mode during display of the player control panel.

Advanced Operations

71
En

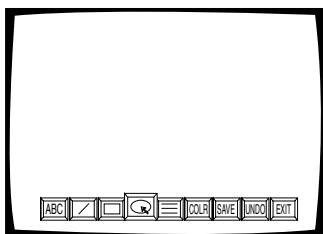## Character Input/Output drawing (DVD video blackboard)
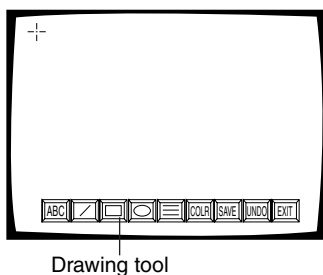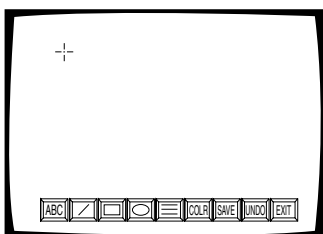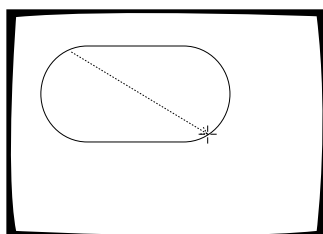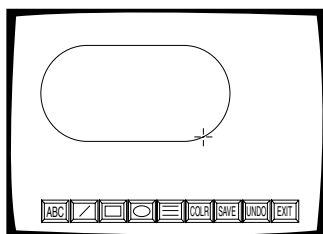
Drawing tool

1

2

3

4

DVD

Using the drawing tools

● Use the mouse's left button to select icon below.

⊘ **(LINE): Draws a straight line.**

▢ **(BOX):This tool can be switched by clicking to a tool for drawing a line-enclosed rectangle, solid-painted rectangle or a rectangle the outside of which is painted.**

▮ **: Paints in inside.**

▯ **: Paints in outside.**

◯ **(ROUND): This tool can be switched by clicking to a tool for drawing an ellipse, solid-painted ellipse or an ellipse the outside of which is painted.**

⬤ **: Paints in inside.**

◖ **: Paints in outside.**

≣ **: This tool can be switched by clicking to a tool for drawing a thin, medium or thick line.**

COLR **: Each click switches the color to Red, Blue, Green, Yellow, White, Black, Gray or Purple.**

SAVE **: Saves the drawn picture.**
(See page 73 for the saving method.)

UNDO **: Cancels the drawn picture. Each click cancels the last drawn picture.**
Press with the mouse for more than 1 second to clear the entire drawing in the screen.

EXIT **: Click the mouse to exits the current screen .**

Note

● The Direction buttons (▲ ▼ ◀ ▶) and [ENTER] on the remote control unit can also be used for the above operation.

● The blackboard function will not function in a disc's menu screen.

DVD

Drawing a picture

Press the mouse's left button at the point you want to start drawing and move the cursor (without releasing the mouse button). (This operation is referred to as dragging.)

*1.***Select a drawing tool.**

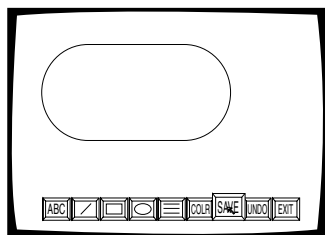*2.***Move cursor to the drawing start position.**

*3.***Drag.**
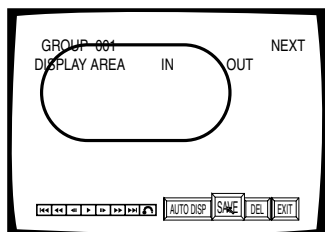● A picture is drawn as you move the cursor.

*4.***Release finger from the mouse.**
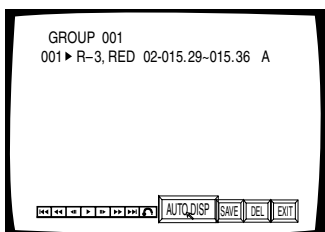● Draw other pictures by repeating the above.

1

DVD

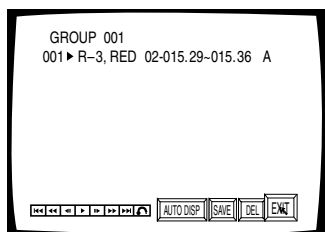## Saving characters or pictures

*1.***Click SAVE on the screen.**

● The Save screen is displayed.

*2.***Display the video where you want to begin displaying the object or text.**

● "IN" blinks.

● Display the video by controlling the player control icon at the bottom left of the screen.

2-4

*3.***Click SAVE on the screen.**

● This sets the display start position.

● "OUT" starts to blink.

*4.***Display the video where you want to stop displaying the object or text.**

● Display the video by controlling the player control icon at the bottom left of the screen.

*5.***Click the AUTO DISP on the screen.**

● This sets the display end position.

● The characters or pictures are saved in the player's memory.

● The group and step where they are saved are shown.

5

*6.***Click EXIT.**

● The Blackboard screen is displayed again.

NOTE:

● By saving the characters and drawing without playing a disc, the drawing can be displayed in a desired scene. (See page 75 for executing method.)

● Stored data is not erased even if power to the unit is switched OFF.

6

NOTE:

● *With a DVD, the start point (IN) and end point (OUT) can be set only within the same title.*

The time display of the IN and OUT points will be shown in ( ) or [ ]. In some cases the image may not be saved exactly as they are in the original.

● *The Direction buttons (▲ ▼ ◀ ▶) and [ENTER] on the remote control unit can also be used for the above operation.*

DVD

Details on the blackboard

GROUP 001
001 ▶ R–1, YLW 02-002.41~032.06 A
002 B–3, GRN 01-027.30~035.08 A
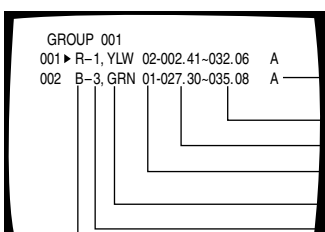
Display mode
(See next page)
Display end min.sec.
Display start min.sec.
Display title

RED : Red
BLU : Blue
GRN : Green
YLW : Yellow
WHT : White
BLK : Black
GRY : Gray
PUR : Purple

1 : Line width fine
2 : Line width medium
3 : Line width thick
i : Painted inside
o : Painted outside

L : Line
B : Box
R : Round

Advanced Operations

Character Input/Output drawing (DVD video blackboard)

Indicator on the top of right

```
GROUP 001
001 ▶ R–3, RED  02-015.29–015.36  A
```

```
◀◀ ◀◀ ◀◀ ▶ ▶▶ ▶▶ ▶▶ ▣ AUTO DISP SAVE DEL EXIT
```

Notes

● It takes time to draw a graphical image, so if you are using it to hide part of the video image, the image-drawing IN point must be set sufficiently in advance of the desired scene. Drawing time varies according to the type of drawn graphic and the number of drawings. As a rule of thumb, the drawing time is usually in the range of 10 to 30 frames.
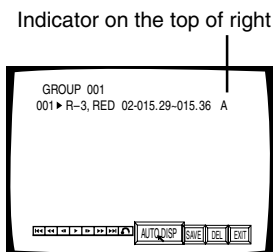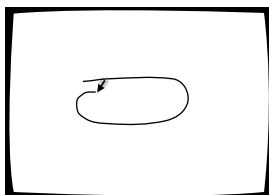
● If different graphics are recorded in adjacent frames, they may not be drawn on the screen during continuous playback due to drawing speed constraints.

● Operation will not be performed according to the setting during frame reverse or reverse playback.

Draw by dragging the left button pressed.

DVD

To change the display mode

1.Move the cursor to the line you want to change and click the left button of the mouse.

2.Move the cursor to AUTO DISP **and click the left button of the mouse.**

Indicator display on the right edge of screen

| A | : Displayed at the same time as the disc playback, from the set start point through the set end point. |

| A S | : The video becomes a still image at the set start point. |

| – A S | : The video becomes a still image immediately before the set start point. |

No display : The set characters or pictures are not displayed.
Pressing ENTER in this section starts drawing.

S : The video becomes the still image at the set start point but objects are not displayed.
Press ENTER on the remote control unit to start picture drawing.

✳ : The ✳ mark is displayed on the top right of the screen during playback.
Pressing ENTER in this section starts drawing.

✳ S : The video becomes a still image, in which only the ✳ mark is displayed, at the set start point.
Press ENTER on the remote control unit to start picture drawing.

Meaning of displayed symbols

"S" stands for "Still image" and plays a still image at the IN point.

"A" stands for "Auto display", which displays drawing in the screen set with AUTO DISP.

"✳" displays only the ✳ marking.

"–" displays a still image immediately before the start of the IN point.

DVD

Pencil tool/freehand drawing

Click the right button of the mouse in the video blackboard input screen to turn the pointer into the pencil tool. Freehand drawing is possible by holding the mouse's left button.
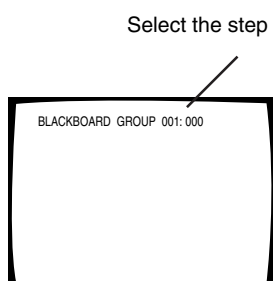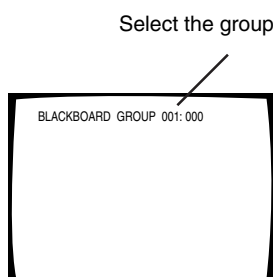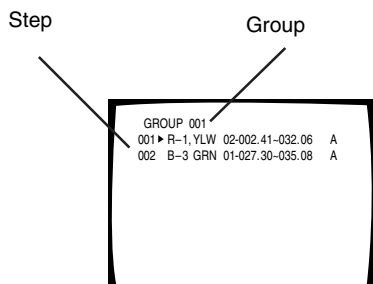Clicking the right button again displays the Blackboard screen.

To change the color or line width, select COLR or ▤ the tool on the Blackboard screen. (See "Drawing Tools" on page 72.)

NOTE:
● *Pictures can be drawn using the pencil tool but they cannot be saved later.*

Grouping video blackboards

Step   Group

```
  GROUP 001
001 ▶ R–1, YLW  02-002.41–032.06   A
002   B–3 GRN   01-027.30–035.08   A
```

DVD

Grouping blackboards

Blackboards can be registered by dividing them into groups according to the disc and title to enable selective use later.
This makes it possible to store drawn characters and pictures in positions matching the played images.
Pictures and characters comprising groups are also stored as steps.
When executing the blackboards, arbitrary registered blackboard groups can be selected and displayed. Groups also can be deleted.

Selecting a group is done as follows.

When **"DISPLAY AREA IN OUT"** is displayed on the screen or when the ▶ (pointer) is displayed to the left of **GROUP**, the group that you want can be selected by clicking on the **NEXT** or **PREV** display with the mouse.

The group can be entered by selecting it and clicking on ⟦SAVE⟧ on the screen.

DVD

To select the group

Select the group

```
BLACKBOARD GROUP 001: 000
```

1. **Press** RECALL **twice.**
- The step section blinks.
- The step section should continue displaying 000.
- When the step is 000, the entire group will be executed.
- When a step is selected, only the selected step in the group will be executed.

2. **Press** PREV **.**
- Group part blinks.

3. **Input the number of the group to be recalled/ executed using the numeric buttons.**

4. **Press** NEXT **twice.**
- This starts execution according to the selected blackboard.

DVD

To execute steps in a group

Select the step

```
BLACKBOARD GROUP 001: 000
```

1. **Press** RECALL **twice.**

2. **Press** PREV **if you want to switch the group.**
- If you do not want to change the group, go to step 5 below.

3. **Input the number of the group to be recalled/ executed using the numeric buttons.**

4. **Press** NEXT **.**

5. **Input the number of the step to begin execution using the numeric buttons.**

6. **Press** NEXT **.**
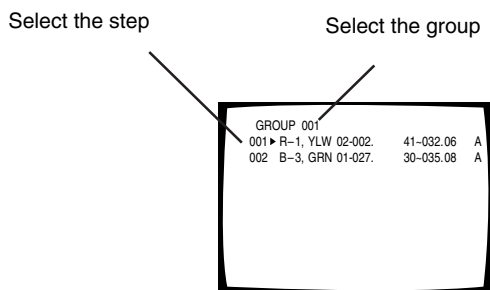- This starts execution of the selected step in the selected group.
- The step setup is released after the step has been executed.

NOTE
The system cannot enter this mode during display of the player control panel.

Advanced Operations

Grouping video blackboards

Select the step

Select the group

```
GROUP 001
001 ▶ R−1, YLW 02-002.   41−032.06   A
002   B−3, GRN 01-027.   30−035.08   A
```

Example
→ Time Flow

A

IN
(Start point)

OUT
(End point)

B

IN
(Start point)

OUT
(End point)

C

IN
(Start point)

OUT
(End point)

D

IN
(Start point)

OUT
(End point)

Recalling/executing previously input blackboards while observing their list

1. Press RECALL twice.

2. Press DISPLAY.
   ● This displays a list of commands.

3. Select a group by pressing PREV NEXT.
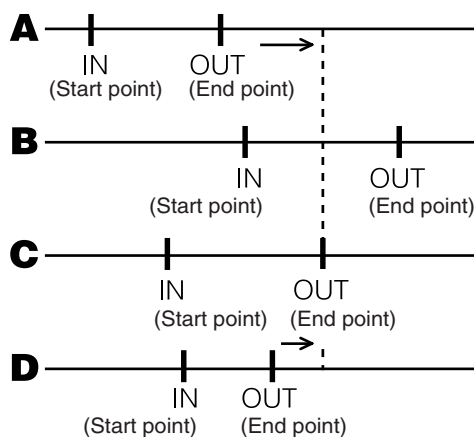
4. Select a step by pressing ▲ ▼.

5. Press ENTER.

NOTE

Press CLEAR to clear the characters or pictures being displayed.

However, characters and pictures that have been set with the

AUTO DISP cannot be cleared with CLEAR.

Display of the recalled characters and pictures

Characters and pictures recalled by "Executing an entire group" are not displayed in the order they were registered but in order of the locations of the set display start points. When a characters or picture is displayed while another character or picture is already displayed, the newly displayed character/picture is superimposed above the existing character/picture, and all characters/pictures are displayed until the last display end point among the set display end points.

● **When pictures A and B are displayed,** picture B appears after the display of picture A has ended.
● **When pictures A and C are displayed,** picture C appears above picture A which is already displayed, and the display of pictures A and C ends at the picture C end point.
● **When pictures C and D are displayed,** picture D appears above picture C which is already displayed, and the display of pictures C and D ends at the picture C end point.

Video text retrieval

DVD

This player enables playback of text files recorded on DVD Video discs.

With the Video Text Retrieval function, you can use the mouse to click on buttons displayed during DVD Video disc playback. This provides text file indications corresponding to the button, either separately displayed on-screen or superimposed over a DVD still image.

● The Video Text Retrieval function operates with Video Text Retrieval compatible discs. It does not operate with regular DVDs that do not feature recorded text files.

● Video Text Retrieval is our original format.

Welcome To The Islands
Of Everlasting Summer!

Welcome To The Islands
Of Everlasting Summer!
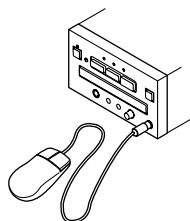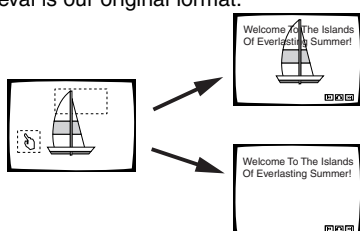
NOTE:
When you return to DVD Video playback after text file display, playback resumes from where you clicked on the button.
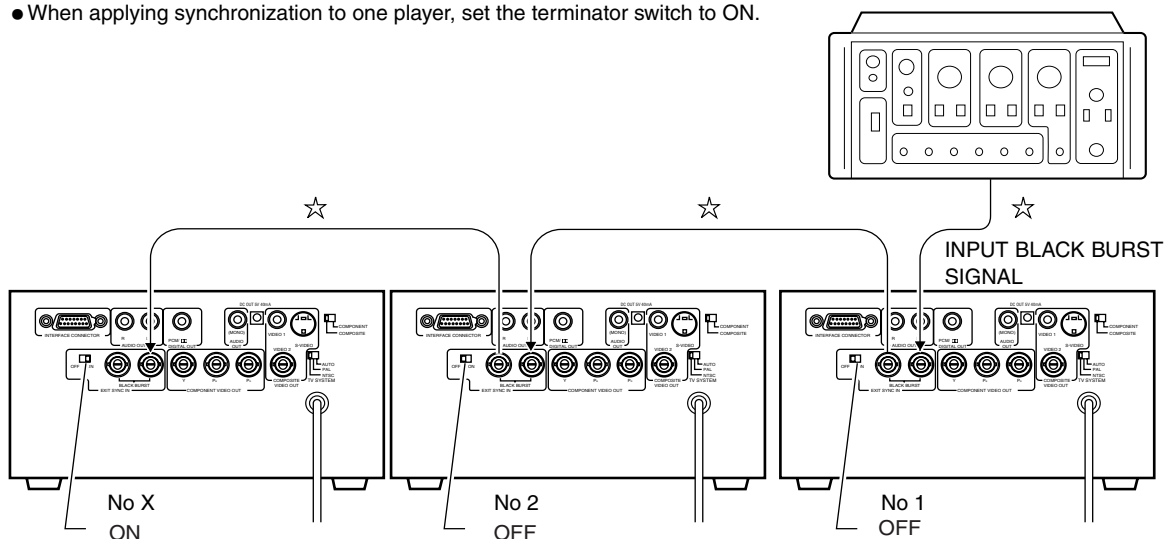
External synchronizing function

DVD

To turn on this this function, set the EXTERNAL SYNC option under the ADV. SETUP menu to OFF, and then set either NTSC or PAL according to the type of disc to be played. Further, select NTSC or PAL of the TV SYSTEM selector on the rear panel depending on the disc which is to be played.

Through external input of a synchronization signal (black burst), video output signals can be synchronized with external signals on the DVD-V7400. (During DVD disc playback.)

Through the use of this function, video switch timing can be matched, and switching can be done without causing picture disturbance on the TV without the need for such devices as a TBC (Time Base Collector).

Synchronized use of 2 or more players

● Using a single sync generator to synchronize two or more players

● Make sure that the terminator switch is ON on the terminal player and OFF on the other players.

● When applying synchronization to one player, set the terminator switch to ON.

INPUT BLACK BURST SIGNAL

No X — ON
No 2 — OFF
No 1 — OFF

☆ Cables can be found at your local audio/video dealer.

NOTE:

● When the external synchronizing function is turned on, discs other than DVD cannot be played.

● Locking to the sub carrier element of the black burst signal will not occur.

● During the approximately 5 seconds needed for locking to the external synchronizing signal, there will be video disturbance at the video output jacks.

● Input the external synchronizing signal before playback of the DVD disc. Synchronization will not operate if input is done after playback is started.

● In cases where two or more DVD-V7400 units are externally syncronized and their videos are started simultaneously for frame-synchronized playback, turn off AV SYNC COMPENSATE on the ADV. SETUP menu. The external sync function works only with DVD play: it does not work with any other operation.

How to display total hours played and power on time
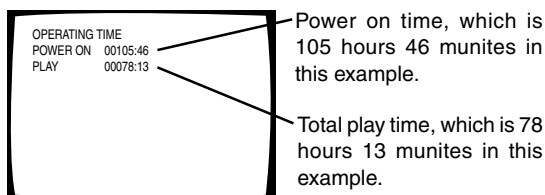
DVD **Video CD** **CD**

This unit is capable of displaying the total play time and power ON time as the working condition and maintenance timing information.

The play time and power ON time can be displayed as described below.

1. **Press and hold on the front panel of the main unit before turning power ON, and press .**

2. **The screen shows the following:**

```
OPERATING TIME
POWER ON   00105:46
PLAY       00078:13
```

Power on time, which is 105 hours 46 munites in this example.

Total play time, which is 78 hours 13 munites in this example.

3. **When an operation (playback from the remote, for example) is performed, the time information display disappears and normal operation starts.**

NOTE
● As the time is measured by the CPU clock, the information includes an error of up to 2%.
● This is not capable of turning the total play time and power ON time as the working condition and maintenance timing information to 0.

Connecting the player

Precautions when connecting the player

This player's Analog copy protect technology is copy guarded. If you connect the player to a TV via a VCR, or record and playback the contents of a disc with a VCR, the playback picture may not be normal.
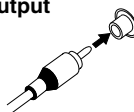
Video output | **Audio output** Right
Left
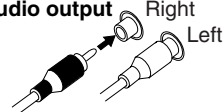
● Connect plugs to the terminals that match the plug's color (white, red, yellow).

Interface connector (RS-232C)
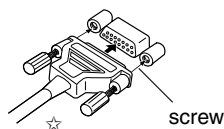
screw

● Align the plug with the connector in the proper orientation and insert, then tighten the lock screws.

S-video output
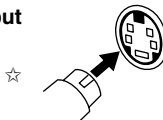
● Connect the TV with S-VIDEO terminal to the S-VIDEO output terminal of this player.

External Sync input (BNC)/Video output (BNC)/ Component video output (BNC)
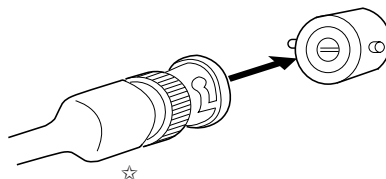
● Align the plug properly with the tab on the connector, and press in carefully, then rotate to the right to lock.

☆ Cables can be found at your local audio/video dealer.

TV SYSTEM selector

Video output changes as follows according to the playback disc's recorded format.

NTSC-PAL, PAL-NTSC conversion is possible on Video CDs. PAL-NTSC conversion is not possible on DVDs. When the TV SYSTEM selector is set to the AUTO position, the disc's format will be output as is. When a CD or disc is not loaded, the previous video output will be selected.

```
            AUTO
            PAL
            NTSC
      TV SYSTEM
```

Disc		Output format		
Type	Format	Position of TV SYSTEM selector		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	——	PAL	PAL
Video CD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	NTSC	PAL	PAL
CD, No disc		NTSC	PAL	NTSC or PAL

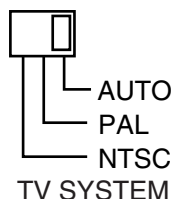### About MOD. (Modulation) PAL

Most model of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not malfunction; it is caused by the NTSC-PAL conversion.

If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has V-Hold control, adjust it until the picture stop rolling.

Connection of mouse and keyboard

A commercially available PS/2 mouse or PS/2 keyboard can be connected to this unit's mouse/keyboard connector as follows.

1. **Turn this unit's POWER off to set it to the standby mode.**
2. **Connect the PS/2 mouse or PS/2 keyboard to this unit's mouse/keyboard connector.**
3. **Turn this unit's POWER ON.**

   Connection is now complete.
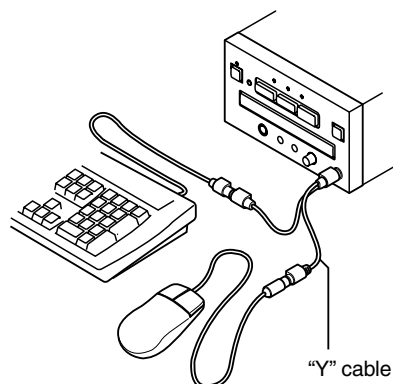
"Y" cable

If you want to use both the mouse and keyboard, connect them using a commercially available "Y" cable.

Note:
- The power rating of this mouse/keyboard connector is no more than 5V 100mA. Do not use a mouse or keyboard with a current drain exceeding the rating of 100mA.
- Certain commercially available PS/2 mouse models, PS/2 keyboard models and "Y" cables may not be compatible with this unit. For details, please consult PIONEER technical support.

Advanced Operations

Connection/etc.

- **Television (monitor TV)**
- **Control Computer**
- **Sync Generator**
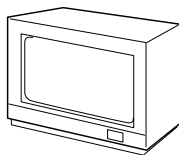
These instructions indicate the connections made when connecting this component directly to a television (monitor TV) to perform disc playback.

● Please also refer to the manual for the TV (monitor TV) that you are connection to.

Computer

Connect one or the other

Audio input (L, R)

Audio input (monaural)

Television (monitor television)

Video input (pin plug)

S-Video input (S)

Video input (BNC)

Connect one of these three inputs

RS-232C ☆

Set to COMPOSITE

Set this switch "ON" when using 1 player, and when not connecting any components.

INTERFACE CONNECTOR

R   L

AUDIO OUT

PCM/ DIGITAL OUT

DC OUT 5V 40mA

(NO)

VIDEO 1

S-VIDEO

VIDEO 2

COMPONENT
COMPOSITE

AUTO
PAL
NTSC
TV SYSTEM

OFF   ON

BLACK BURST
EXIT SYNC IN

Y   Pe   Pa

COMPONENT VIDEO OUT

COMPOSITE
VIDEO OUT

☆

Sync signal output terminal

DC OUT 5V 40mA

(MONO)

AUDIO
OUT

VIDEO 1

Finally, connect to a home wall outlet.

VHF adapter (Sold separately)

VHF antenna

UHF antenna

When connecting to a television set without video/audio input terminals

VHF antenna

☆ Cables can be found at your local audio/video dealer.

Connect to the Component Video input

● The description of the component video input connectors may differ depending on the TV set or monitor.

●If the color of the picture is thin or something wrong, adjust the color setting of the TV you are connection to.

Do not connect to the component video input of the high-vision TV (Y, P$_B$, P$_R$).

Audio input

BNC cables (sold separately)

To computer

Set to COMPONENT

Component ☆
video input

Television with the component video out
(monitor television)

To SYNC generator

Finally, connect to a home wall outlet.
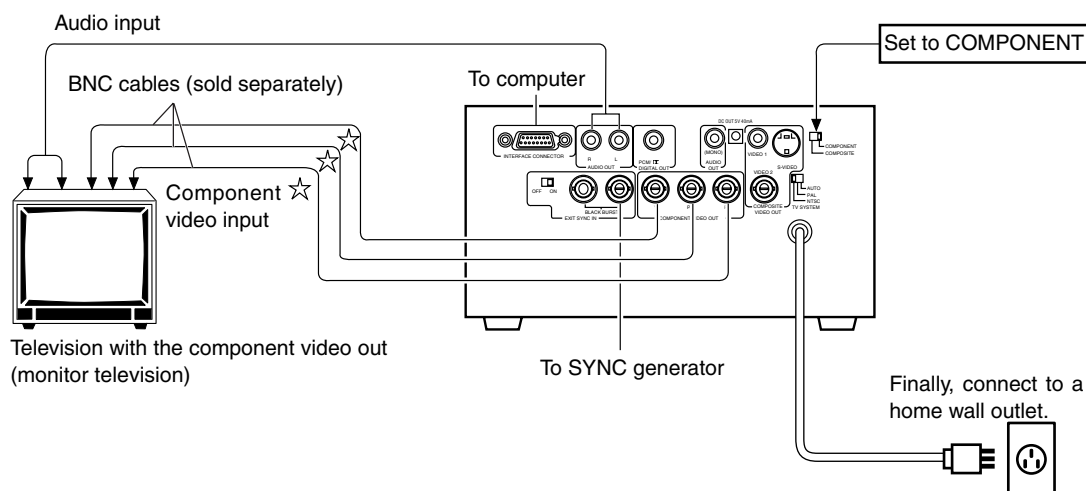
☆ Cables can be found at your local audio/video dealer.

Connection example 2		When connecting the player to an amp with Dolby Digital inputs.
AV receiver with digital input for Dolby Digital.		
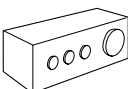
*Make this connection when using this unit with Pioneer's VSX-27TX, VSX-29TX AV receiver.

● Connect this unit's digital output PCM/ ▯▯ jack to the Dolby Digital input jack of a Dolby Digital compatible amplifier.
● Select whether or not to use the coaxial digital output according to the amplifier's input jack.

DVD, LD, AUDIO IN   PCM/ ▯▯/DTS   VIDEO IN

☆

Finally, connect to a home wall outlet.
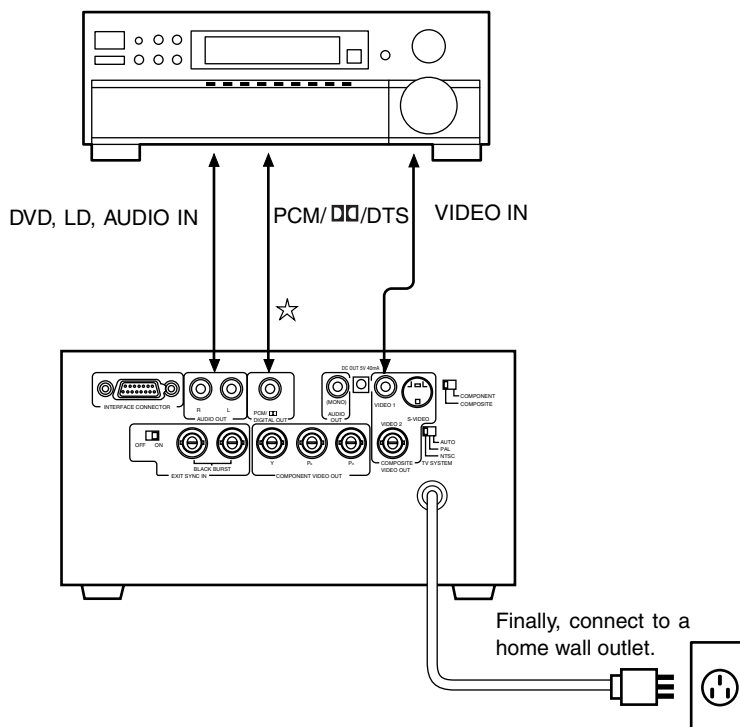
☆ Cables can be found at your local audio/video dealer.
● Some discs may not allow digital output when this player's output down sampling is set for 96 kHz (see page 35).

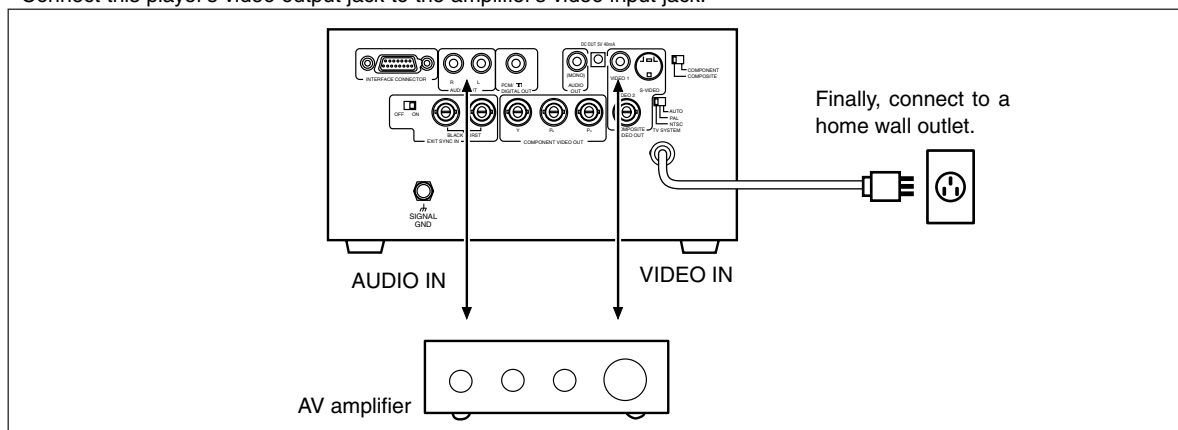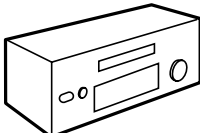| **Connection example 3** **AV amplifier**		By connecting to a regular AV amplifier or stereo amp, you can enjoy playback with improved sound quality.

● Connect this player's audio output jacks to an amplifier's CD, LD, AUX or other audio input jacks. (Do not connect to PHONO jacks.)
● Connect this player's video output jack to the amplifier's video input jack.

AUDIO IN

VIDEO IN

Finally, connect to a home wall outlet.

AV amplifier

● Surround sound can be enjoyed with amplifiers that have a built-in Dolby Pro Logic decoder.
● For more details, refer to the connected component's operation manual

Connection example 4 **Digital Audio recorder**		You can connect to a digital audio recorder as MD,CD-R or DAT.

● Connect this player's coaxial digital output jacks to MD player, CD-R player, or DAT player.
● Connect this unit's digital output PCM/ ⊡⊡ jack to the digital audio recorder.

☆

Digital audio input

Finally, connect to a home wall outlet.

Digital audio recorder
(MD player, CD-R player, or DAT player, etc.)
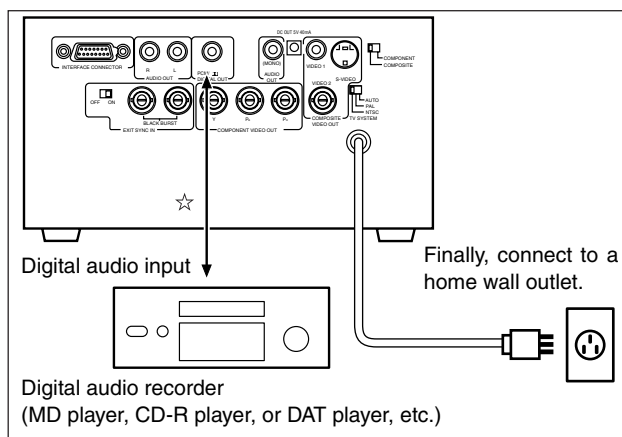
NOTE
When you record the Dolby Digital DVD, set [Digital Output] (see page 34) to [Dolby Digital▶PCM]. If [Digital Output] is set to [Dolby Digital] during recording Dolby Digital DVD, noise is recorded.

☆ Cables can be found at your local audio/video dealer.

# Using a Laser Barcode Scanner (Sold Separately)

Laser Barcode Scanner

To use the optional LaserBarcode Scanner (UC-V108BC or UC-V109BC) in the wired mode to transmit signals, connect the LaserBarcode scanner's connection cord to the player's front-panel EXT.CONT jack.

To transmit barcode signals in the wireless mode, aim the remote control unit toward the player's remote control signal receiver. Consult the LaserBarcode Scanner's Operating Instructions for details on operation.

Note:
● During operations using the LaserBarcode Scanner, attempting to operate the player by means of the remote control unit, player operating buttons, or serial commands from a computer may cause malfunctions.

When using the LaserBarcode Scanner in the wired mode, the remote control unit is disabled in order to prevent error commands from the remote control unit. For this reason, it is recommended that the wired mode be used.

● When the player is operated via barcodes, the on-screen displays when this player is operated such as "Play" and "Stop" do not appear.

● When a CD or Video CD disc is loaded, barcode commands issued for LD or DVD are ignored.

● When a DVD is loaded, commands issued for CDs are ignored.

When used in wireless mode:

Optional LaserBarcode Scanner
UC-V108BC

When used in wired mode:

Optional LaserBarcode Scanner
UC-V108BC
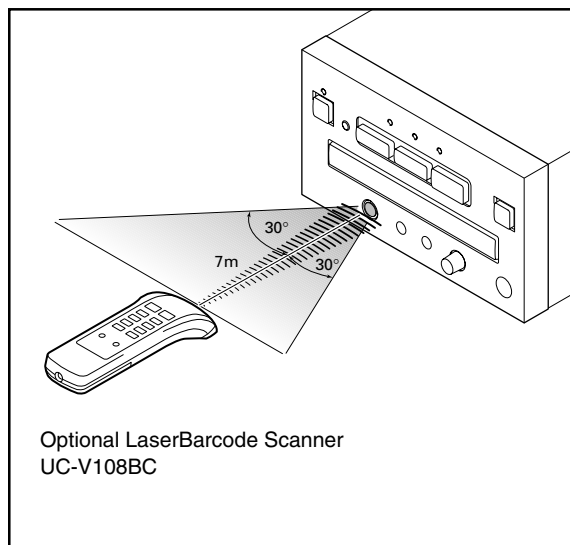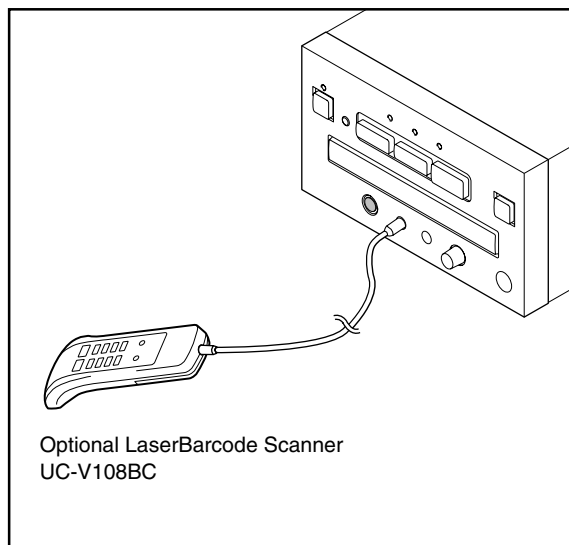
Troubleshooting

If you are wondering whether you have a breakdown, please check and find out. A slight mistake in operation can make you think that you have a breakdown. Furthermore, factors other than this player can also be considered. Check the television, the AV amplifier and the speakers, etc., that you use together with this player. When the problem is not corrected, even after inspecting again according to the items below, contact the store where you purchased the player or the nearest PIONEER authorized service center.

Power does not come on.
➡Connect the power cord to the outlet properly (page 80 - 83).

Even when the disc table is closed, it comes out.
➡Set the disc in the disc table properly (page 10).
➡Clean the disc (page 6).
➡Check the region no. (page 7, 86).

The screen does not appear.
➡Check the setting of the video output selector at the rear of this player with the connected video terminal (page 80, 81).
➡Confirm that connections are correct (page 78-83).
➡Make the television or AV amplifier setting, etc., to DVD playback setting.

Cannot play back.
➡Clean the disc (page 6).
➡Set the disc in the disc table properly (page 10).
➡Remove the condensation in the player (page 6).
➡SECAM format discs cannot be played back.
➡Insert the disc with the proper side up.

The contents of the settings disappear.
➡When the power has been turned off due to a power outage and the power cord having been pulled out while the power is turned on, the contents of the settings disappear. Make sure to pull out the power cord after the power button of the player or the power button of the remote control has been pressed and the indicator has turned orange.

The screen stops and the operation buttons are not accepted.
➡After pressing ▐■ STOP, play back once more.

The 🚫 mark appears on the screen.
➡The disc prohibits that operation (page 7).

The 🚫 mark appears on the screen.
➡The player prohibits that operation (page 7).

Cannot use the remote control.
➡Operate within the usage range of the remote control. (page 10)
➡Replace the dry cell batteries of the remote control with new ones (page 3).

External synchronizing cannot be performed.
➡Refer to the EXTERNAL SYNC setting in the ADV. SETUP menu.(page 42)
➡Check the notes under "NOTE" for the external synchronizing function. (page 77).

No sound comes from the speakers or the sound is distorted
➡Confirm that the audio cable is properly connected (pages 78 - 83).
➡Some discs prohibit 96 kHz digital output of Linear PCM audio. With these kinds of discs, even if the [96 kHz PCM Out] setting of [Audio 1] of setup menu screen is set to [96 kHz], it is automatically changed to 48 kHz and output. (page 35).
➡During playback of a DVD recorded at 96 kHz in 16:9, when [4:3 (Letter Box)] of [Video] is selected, even if the setting of [96 kHz PCM Out] of [Audio 1] is set to [96 kHz], it is automatically changed to 48 kHz and output (page 23).
➡Clean the disc (page 6).
➡If it has been set to the pause or slow playback mode, change to the playback mode (page 15).
➡If the volume of the television or AV amplifier, etc., has been set to "minimum", raise the volume.
➡Confirm that the connector plug has been sufficiently inserted and that it has not been disconnected.
➡If the connector plug and terminal are dirty, wipe them.

The screen is extended vertically or horizontally.
➡Adjust the [TV Screen] setting (page 24).

There are difference in volume between DVD and CD.
➡This is due to the difference in the disc recording methods.

The picture is distorted or dark during DVD playback
➡This player has the copy guard of an analog copy protect system. Some discs have a copy prohibition signal. When those types of discs are played back, a condition such as lateral stripes on part of the screen appears, but this is not a malfunction.

The playback screen is distorted when a DVD video has been recorded on a VCR and played back on a VCR
➡This player has the copy guard of an analog copy protect system. Some discs have a copy prohibition signal and when that kind of disc is played back on a VCR, and recorded and played back on a VCR, it cannot be played back normally due to the copy guard.

The television, etc., malfunctions
➡Some televisions with a wireless remote control function malfunction due to the remote control of this player. Use them separated from this player.

When setup menu screen appears, a screen set to letter box suddenly becomes extended vertically.
➡When setup menu screen appears during playback in the letter box or pan & scan modes, the screen size is forcibly changed to the wide-screen mode, but this is not a malfunction. (See page 24)

This player may not operate normally due to outside influences such as static electricity. At such times it may operate normally after the power cord has been temporarily unplugged and plugged in again. When the problem has not been solved by this procedure, consult the store where you purchased the player or the nearest service station.

Connection/etc.

Terms

Aspect

Aspect ratio refers to the length to height ratio of TV screens. The ratio of a normal TV is 4:3, while the ratio of a Hi-vision TV or wide TV is 16:9. This allows you to enjoy a picture with a wider perspective.

Component video output

The color signal of the TV is divided into the luminance (Y) signal and the color (P_B and P_R) signals and then output. In this way mutual interference of each signal is avoided. On a TV with component input jacks, these signals are synthesized to produce the picture.

Parental level

This function was suggested by parents. Parental level control are restrictions incorporated into scenes that allow parents to prevent their children from viewing them if they desire.

Dynamic range

Dynamic range refers to the difference between the maximum and minimum levels of the audio soundtrack as measured in decibels (dB).

Dolby Digital

The maximum 5.1 channels of audio used in the surround system (Surround Digital) for movie theaters is digital data compressed by AC-3.

For DVD discs, the digital output PCM/ ⃞⃞ jack must be connected to the amplifier or processor's digital input AC-3/PCM jack.

Playback Control (PBC)

This refers to signals recorded on a Video CD (Version 2.0) enabling playback control.
You can use menus recorded on discs with PBC for easy, interactive search for desired scenes and playback.
You can also enjoy viewing high-resolution/standard resolution still images.

Multi-angle

When you watch regular TV programs you are watching the image filmed through the TV camera. Because of this, the picture is displayed on your TV from the view point of the TV camera's position. In a TV studio the image is filmed by many cameras at the same time. One of those images is selected by the program director and transmitted to your TV. If all the filmed images were transmitted to your TV you would be able to select the camera image you want. Some DVD discs are recorded with the angles of all the camera's used for filming and you can select among them when using this player. These types of discs are called multi-angle discs.

Multi-audio

Some DVD has multi audio language.
Up to eight different languages (8 streams) can be recorded on a DVD disc, The multi audio function can be used to select the language of your choice.

Subtitle

Subtitles are language titles superimposed on movies etc. Up to 32 different subtitle languages can be recorded on a DVD disc. The subtitle function can be used to select the language of your choice.

Regional restriction codes (Region number)

Regional restriction codes are built in to DVD players and DVD discs for each sales region. If the regional restriction codes of the DVD player does not match one of the regional restriction codes of the DVD disc, playback is not possible.

The regional restriction code can be found on the rear panel of the DVD player. The illustration below shows the regions and corresponding region numbers.

Linear PCM

This refers to DVD audio recording format. It is the same format as that of CD audio, but the sampling frequency is recorded at 48 kHz and 96 kHz, and audio with a higher sound quality than that of a CD can be enjoyed.

DTS

DTS stand for Digital Theater System. DTS is a surround system different from Dolby Digital that has become a popular surround format for movies.

MPEG

MPEG stand for Moving Picture Expert Group. This is an international standard for compression of moving images. On some DVDs, digital audio has been compressed and recorded in this format.

PCM

PCM stands for Pulse Code Modulation and is digital audio. The digital audio of CD or DVD discs is PCM.

5.1 ch

This refers to multi-channel audio with a special low sound range 0.1 channel added to the five channels of front left/right, center and rear left/right. It is used by the Dolby Digital and DTS surround systems.

Specifications

General

System .... DVD system , Compact Disc digital video and Compact Disc digital audio system
Power requirements .... AC 120 V, 50/60 Hz
Power consumption .... 16 W
Power consumption in standby mode 0.5W
Weight .... 4.7 kg (10.6 lb)
Dimensions .... 210 (W) x 408 (D) x 119 (H) mm
(8 $\frac{1}{4}$ × 16 $\frac{1}{8}$ × 4 $\frac{11}{16}$ in.)
(Not including protruding cables, etc.)
Operating temperature .... +5°C to +35°C (+41°F to +95°F)
Operating humidity .... No more than 85% (no condensation)

Video Output

Output level .... 1 Vp-p
(75Ω when loaded, synchronous negative)
Jacks .... BNC, RCA

S-Video Output

Y (luminance) - Output level .... 1 Vp-p (75Ω)
C (color) - Output level .... 286 mVp-p (75Ω)

Component video Output

Y - Output level .... 1 Vp-p (75Ω) BNC
P_B - Output level .... 0.7 Vp-p (75Ω) BNC
P_R - Output level .... 0.7 Vp-p (75Ω) BNC
S/N ratio .... more than 60 dB
Horizontal resolution .... more than 500

External synchronizing input

Input signal level .... Black burst
0.3 Vp-p (75Ω) BNC x 2 (loop through)

Audio Output

Output level
During audio output .... 200 mVrms (1 kHz, –20 dB)
Number of channels 2
Frequency response .... 4 Hz to 22 kHz (DVD fs: 48 kHz)
4 Hz to 20 kHz (CD)
S/N ratio .... 115 dB (EIAJ)
Dynamic range .... 98 dB (EIAJ)
Wow and flutter .... ±0.001% W. PEAK or lower (EIAJ)

Other Terminals

Coaxial digital output (PCM/ DD) .... RCA jack
Communication interface (RS-232C) .... D-SUB, 15-pin

Accessories

Audio cord 1
Video cord 1
Remote control unit 1
AA (R6P) dry cell batteries 2
Laser barcode Sheet 1
RF adaptor set clamp 1
Screw 1
Operating Instructions 1
Warranty card 1

NOTES:
- All values listed in these specifications are standard values.
- The specifications and design of this product are subject to change without notice, due to improvement.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion-and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

Connection/etc.

Information about this product

http://www.pioneerusa.co.jp

<99K00JF0G00>   Printed in Japan   <DRB1264-A>